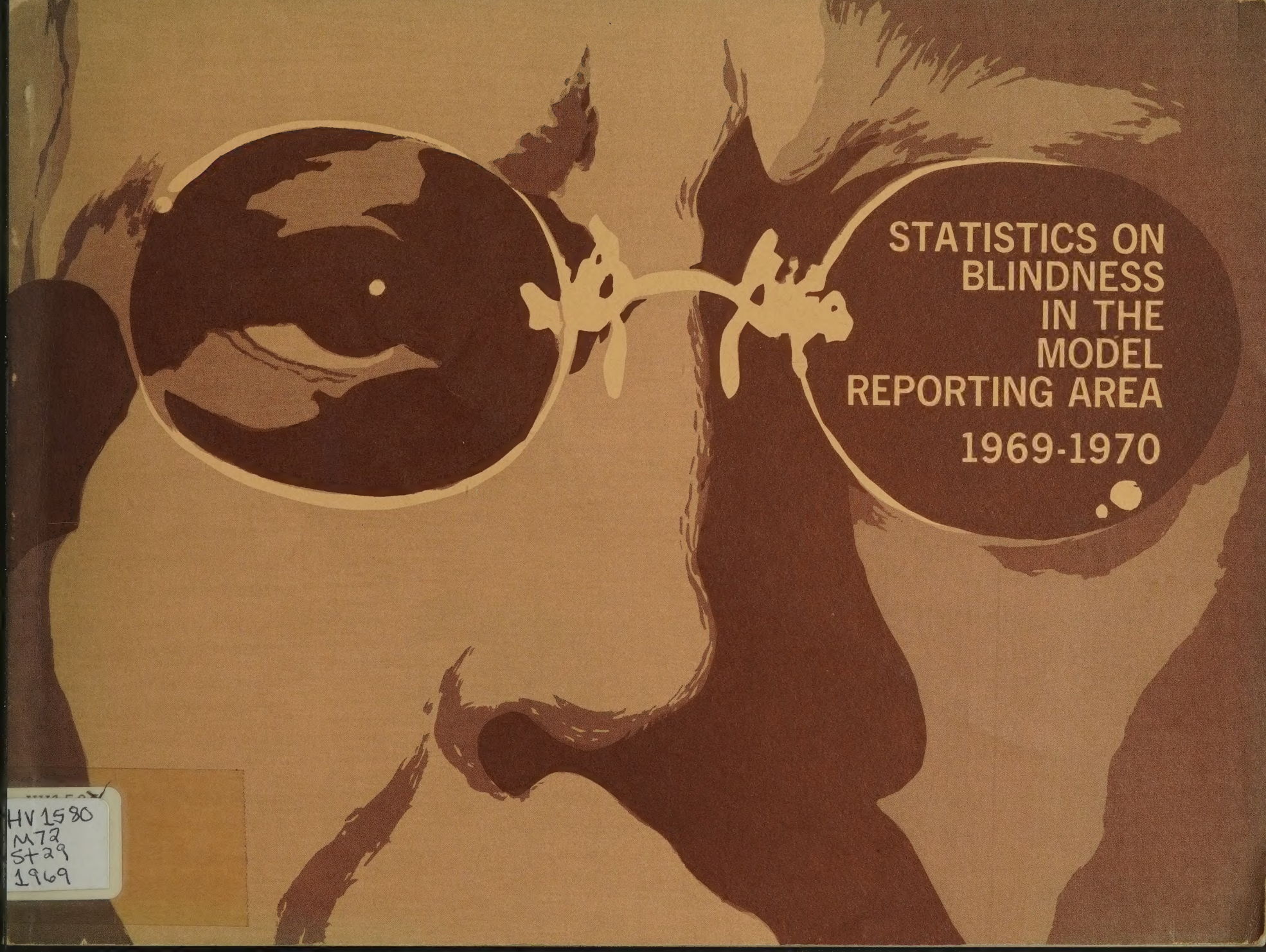


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STATISTICS ON BLINDNESS IN THE MODEL REPORTING AREA 1969-1970

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Introduction

The Model Reporting Area for Blindness Statistics (MRA) is a voluntary association of states that have agreed to uniform definitions and procedures so as to improve the uniformity and reliability of data regarding blind persons. The basic source of data is the registration of blind persons with the appropriate state agency in accordance with state law. The 16 states in the MRA for 1969 and 1970 are listed in Table 1. States were admitted to the MRA if they coded cause of blindness according to established rules; maintained a register review so as to remove cases that had recovered sight, died, or left the area; collected and reported various associated data according to established procedures; and defined blindness as: distance vision of 20/200 or worse with best correction using ordinary lenses or a visual field limited to 20 degrees or less at the widest point. Additional details regarding MRA definitions and objectives have been presented previously [1,2].

Tables 1–28 present data in the same general format as that used in the three preceding reports in this statistical series on Blindness in the Model Reporting Area [3-5]. In addition, data are presented for the first time on register prevalence for causes of blindness, and age-standardized rates are used to eliminate the effect of varying age composition in comparing rates for different color and sex groups. The age-standardized rates were computed according to the direct method using the age distribution of the total 1970 census population of the 14 states. With respect to color, the population has been divided into two groups: "white" and "other." The "other" group includes such people as Negro, American Indian, Chinese, Japanese, and any other race. Wherever Mexican persons were separately reported they are included with white. In rate or percentage tables 0 signifies zero with 0.0 used to signify more than zero but not more than 0.05. Percentages or rates of components may not always add up to totals because of rounding.

Historical Series Tabulations

Table 1. Although quite variable from state to state, the 1970 total MRA annual rate of additions (15 per 100,000 population) and rate of persons on the register (162 per 100,000 population) are very similar to those reported eight years earlier when data for only nine states were available (16 and 161 per 100,000 respectively). As an illustration of year-to-year variability reflecting administrative rather than real changes, the 1969 and 1970 decrease in rate of persons on the register in New Mexico follows a program initiated in 1968 of intensively investigating registered persons to identify and remove those who have recovered sight, died, cannot be located, etc.

Table 2. Addition rates for males and females are approximately equal. For the age groups 20-64, addition rates for nonwhites are about triple the rates for whites. After age 44 addition rates increase sharply with age.

Table 3. Approximate equality of male and female addition rates is observed in almost all states with exceptions limited to only one of the two years currently being reported or to sex groups with fewer than 25 cases. Addition rates for nonwhites are higher than those for whites.

Table 4. Except for Georgia, where administrative procedures discourage referral of persons over age 65 to the Aid to the Blind program, all states show marked increases in addition rates with age, beginning at age 45-64.

Table 5. Less than 10% of the registered blind are absolutely blind. About 10% have vision limited to light perception or light projection, and about 10% have severely restricted visual fields. Thus, for the great majority of persons added to registers for the legally blind, the problem is inadequate visual acuity after best correction. About 25% are reported to be in the borderline category of 20/200. Due to the nature of usual examination materials for visual

acuity, the reported category of 20/200 includes persons with visual acuity better than 20/200 but worse than 20/100.

TABLE 6. Nonwhites have a slightly larger proportion in the more severe visual acuity categories than do whites.

TABLE 7. The proportion of new additions with absolute blindness or vision limited to light perception or light projection is much higher under age 5 than at older ages.

TABLE 8. For the total MRA, age when blinded was reported as unknown for almost half the new additions. Pooling the annual data from states reporting less than 10% unknown in a specific year (3 in 1969 and 6 in 1970) suggests that slightly over one-quarter of all persons added to state blindness registers became blind between ages 45 and 64. Over 15% became blind in each of the age periods 65-74 and 75-84, and over 10% were born blind.

TABLE 9. Over 90% of first additions were examined by an ophthalmologist or an eye-ear-nose-throat specialist at the time of registration.

TABLE 10. Although physicians other than ophthalmologists or eye-ear-nose-throat specialists are the reported examiners in less than 3% of all first additions to registers, they are the examiners for almost 10% of the first additions who are absolutely blind.

TABLE 11. The most common affections overall are retinal degeneration, other retinal affection, cataract and glaucoma. These same four affections are the commonest in 24 of the 32 sets of state data for 1969 and 1970. At least three of these affections are among the four most common in every one of the individual state reports for 1969 and 1970.

TABLE 12. Among nonwhites blindness is more commonly due to glaucoma and less commonly due to retinal degeneration than among whites. Nonwhite males also seem to be less commonly blinded by "other retinal affections" than other groups. Proportionately more males than females are blinded by optic nerve atrophy.

TABLE 13. At age 45 and over the most frequent affections in each age group are those mentioned above as commonest overall. They are retinal degeneration, other retinal affection, cataract and glaucoma. In all age groups below 45 optic nerve atrophy appears as one of the four principal affections.

TABLE 14. Retrolental fibroplasia is the most severe affection reported, with over half the cases absolutely blind or having light perception only. The data regarding visual acuity for those blinded as a result of glaucoma are not altogether in agreement with a commonly held opinion [6,7] that macular vision is retained until the disease is far advanced, with patients frequently being unaware of visual loss until they are practically blind. In the MRA data the number of glaucoma blind due to inadequate visual acuity exceeds the number of glaucoma blind due to restricted visual field.

TABLE 15. The etiological classifications reported in these data are undoubtedly useful, but the reader should appreciate that some categories derive from accepted conventions. For example, in these data glaucoma is uniformly coded to the etiology category "unknown to science" but blindness associated with neoplasms or nonhereditary senile macular degeneration is coded to the etiological categories "neoplasm" and "senile degeneration" even though no more may be known about the etiology of the neoplasms or senile macular degeneration than about the etiology of glaucoma. With trivial exceptions related to very small numbers, all states report senile degeneration, prenatal influence, diabetes and unknown to science as the most common etiological categories.

TABLE 16. The etiological category "unknown to science" (principally glaucoma) is proportionately more common for nonwhites than whites while the reverse is true for senile degeneration. Senile degeneration is proportionately more common among females than males, while the reverse is true for injury or poisoning. Nonwhite males seem particularly resistant to the blinding effects of diabetes.

TABLE 17. Some etiological categories are represented principally by additions under age 45, others by additions over age 45. None show an approximately uniform distribution by age.

TABLE 18. The different etiological groups are associated with different distributions of visual acuity. Over 40% of those blind as a result of injury or poisoning are absolutely blind or are limited to light perception or light projection only. At the other extreme, less than 10% of those blind due to senile degeneration are that severely afflicted.

TABLE 19. The cross-classification of affection with etiology reveals that retinal degeneration is almost entirely attributed to either senile de-

generation or prenatal influence and that other retinal affection is principally attributed to diabetes. The four largest cross-classification categories with each accounting for about 10% of all additions to blindness registers are: senile retinal degeneration, glaucoma, diabetic retinopathy and senile cataract.

TABLE 20. Multiple affections reported herein exclude cases for which it was possible to establish which affection first caused blindness. About 75% of the multiple affections include cataract, about 60% include retinal affections, and about 40% include glaucoma.

TABLE 21. A comparison with Table 1 shows that additions to blindness registers in the MRA States exceeded removals by about 6,000 cases during the two-year period 1969-70. The principal reason for removal is death.

TABLE 22. Register prevalence rates are much higher for nonwhites than for whites and, as can be observed by looking at age-specific rates, are slightly higher for males than for females. All sex-color groups show steep increases in registered prevalence by age to over 2% prevalence at age 85+. The ratio of nonwhite to white prevalence rates increases with age to a maximum at age 45-64 and decreases thereafter.

TABLE 23. In general, register prevalence rates are approximately equal for males and females both overall and for each state. However, Louisiana shows a substantially higher rate for males than for females both among whites and nonwhites that is clearly greater than can reasonably be ascribed to chance. As was noted previously with respect to new additions, register prevalence rates are higher for nonwhites than for whites.

TABLE 24. Register prevalence rates increase sharply with age in all states except Georgia where, as noted above, administrative procedures operate against referral of needy blind persons over age 65 to the Aid to the Blind program.

TABLE 25. A comparison of the distribution of register prevalence cases by visual acuity with the distribution of register incidence cases by visual acuity (Table 5) shows that those in the most seriously disabled group (absolute blindness, light perception or light projection) are about ¼ of those on the register but only ⅙ of the additions to the register. The increased proportion on the register as compared to additions is at least in part a reflection of the younger age of the more seriously blinded group.

TABLE 26. The distribution of register prevalence cases into visual acuity categories for color-sex groups shows a larger proportion of nonwhites than whites are in the most disabled categories, with very little difference between males and females.

TABLE 27. As previously noted for additions, the youngest persons on the blindness registers have the highest proportion of absolute blindness and light perception only.

TABLE 28. Population data for the years 1962-1968 are not provided. The cases and rates given in this report for years before 1969 are taken from the previous publications in this series on Statistics on Blindness in the Model Reporting Area [3–5, 8–11].

New Tabulations

The last two tables in this publication do not have any close analogues in the 1962–68 series of MRA Statistical Reports on Blindness. The cause categories in Tables 29 and 30 are a simplified combination of the affection and etiology groupings previously reported. For this simplified cause grouping, it did not seem necessary to exclude cases not examined by an ophthalmologist or an eye-ear-nose-throat specialist, and they were included. Past MRA tabulations relating to affection or etiology excluded such cases and also excluded readditions.* Tables 29 and 30 relate to only 14 states instead of the 16 in the MRA. New York and Massachusetts have been excluded, New York because the data are not reported by color and Massachusetts because it was technically impossible for us to tabulate the data in the revised format. Cases of unknown color have been allocated in proportion to known color within specific state-age-sex diagnostic categories. Similarly, cases of unknown age were allocated in proportion to known ages within specific state-color-sex diagnostic groups. After summing the allocated and previously known cases for all 14 states, totals were rounded to the nearest integer. Because the specific categories were sometimes empty except for the unknown(s) to be allocated, and

* We have prepared a 1969–1970 tabulation in the format of Table 29 but limited to first additions with diagnosis reported by an ophthalmologist or EENT specialist. The comparative findings reported in this paper would not be changed if we were to base them on these more limited data.

thus no allocation according to knowns was possible, the totals for the 14 states are short of the true totals by 91 cases (1.68%) for additions in Table 29 and by 25 cases (0.05%) for register prevalence in Table 30.

Much of the information about register additions shown by Table 29 has been noted previously in the traditional MRA tabulations. These include generally higher addition rates for nonwhites than whites, generally equivalent rates for males and females and identification of other retinal disease, glaucoma, diabetic retinopathy and acquired cataract as the four most common diagnostic categories. However, these findings are sharpened and made more definitive by the use of age-sex-color specific rates and also by age standardization. Thus, an earlier comment based on Table 16 to the effect that nonwhite males seem particularly resistant to the blinding effects of diabetes can now be seen as less accurate than the somewhat complementary statement that nonwhite females seem especially vulnerable to the blinding effects of diabetes. Nonwhite males seemed resistant (and in a way perhaps they are) because they have higher rates in almost all other diagnostic categories but "ordinary" rates for diabetic retinopathy. The previous observation that the ratio of nonwhite age-specific rates to white age-specific rates increases with age for younger ages and decreases with age for older ages is confirmed in Tables 29 and 30 for males and females separately and for every diagnostic category.

Nonwhite addition rates for blindness attributed to glaucoma are 8 to 10 times the rates for whites. Nonwhite rates for blindness attributed to corneal or scleral disease are 5 to 6 times the rates for whites. Except for the already mentioned nonwhite females' high risk of blindness from diabetic retinopathy, nonwhites have approximately equal rates to whites for retinal disease. The only sizeable and significant male-female difference observed for both whites and nonwhites is the increased risk of blindness attributed to optic nerve disease for males.

The age-standardized nonwhite female addition rate for blindness due to diabetic retinopathy is about triple the corresponding rates for each of the other three color-sex groups.

Table 30 presents age-sex-color diagnosis specific rates and age-standardized rates for persons on the blindness registers in the MRA States (excepting New York and Massachusetts) as of December 31, 1970. Almost all of the observations made about additions to registers for 1969 and 1970 can be repeated for these prevalence data. The only exceptions are that males have higher prevalence rates than females for congenital retinal disease, and optic nerve disease replaces diabetic retinopathy as one of the four most common diseases. The lesser importance of diabetic retinopathy in "prevalence" cases as compared with "incidence" cases is undoubtedly a reflection of the high mortality associated with diabetes of a duration and severity sufficient to cause blindness.

Discussion

The strength of the MRA data lies in their uniformity; their weakness principally relates to incomplete registration of blind persons and probable variability in degree of completeness among states, racial groups, age classes, diagnostic categories, etc.

No estimates of MRA registration completeness are available, but some data exist to suggest that unregistered cases may be a very substantial fraction of the total: Cleveland, Ohio —among 14 legally blind persons located during a household survey fewer than half were known to the Cleveland Society for the Blind [12]; New York City—153 out of 203 legally blind persons identified in a survey of hospital records from five New York City hospitals were not included in the New York State Register [13]; Glamorgan, Wales—nine out of 31 registrable blind persons identified in a group practice list of patients aged 65 and over were not in the blind register for the area [14]. The applicability of these findings to the MRA is not known but they suggest that blindness registers in the MRA may be incomplete to an important degree.

Although data handling procedures within the MRA are undoubtedly more uniform than would be the case among a comparable group of non-MRA states, it would be unrealistic to presume that observed differences among states in all matters other than overall completeness of reporting are real rather than due to artifacts. If, for example, one state has administrative rules which result in more complete registration under age 65 than over age 65, this would affect not only the age pattern but also the diagnostic distribution of the registered blind. Those interested in data for a particular state should try to learn as much as possible about the details

of registration completeness and data processing procedures for that state and use the state information herein in conjunction with such knowledge. Those interested in the overall data for the MRA should give more weight and attention to findings that are common to many states rather than to one or two. All readers are cautioned that the data herein arise under varying administrative and clerical procedures that differ from state to state. The data in this report are informative and valuable, but they do not necessarily agree with the actual distribution of the blind population for the variables tabulated.

The data in Table 29, and to a lesser extent in Table 30, overlap somewhat the data reported in Tables 1–27. The reason for the redundancy is our wish to take advantage of the greater information afforded by age-sex-race specific rates as compared to proportionate distributions. In addition, the use of average annual rates over a two-year period reduces erratic changes resulting from chance variation of small numbers, and age-standardization further simplifies comparisons between groups by eliminating differences due to differing age structures. Another reason is that percentage distribution tables are not easy to interpret. As an illustration, consider tabulations of the percentage of blindness attributed to glaucoma for several population groups. One of the groups shows a higher percentage of glaucoma than the others. This may be due to the fact that the population with the highest percentage for glaucoma does in fact have many glaucoma cases or it may follow from the fact that other causes of blindness in that group are quite rare, thus even a moderate or small number of glaucoma cases would account for a large proportion of the total in that population. Percentage distribution tables have been included in this present report in order to maintain continuity with the series of tabulations in previous MRA reports.

Although it seems certain that additions to blindness registers understate the true incidence of blindness, the situation with respect to prevalence of blindness is not so definite. Because blindness registers are updated with uneven thoroughness and accuracy in the different MRA States and even from year to year within the same state, it is possible that errors of overstatement resulting from the failure to remove persons who have died, been cured, or otherwise no longer qualify for inclusion, may offset to a significant degree the errors of understatement flowing from failure of blind persons to be registered. Thus, the rate of cases on the register cannot be so clearly designated as an understatement of the true prevalence rate—at least, not in all states and for all years.

Although registration of blind persons with state agencies is incomplete, some aspects of our interpretation of MRA data do not rest heavily on the overall level of completeness. For example, we are interested in questions such as: "Do whites and nonwhites differ in blindness rates?" We would have no difficulty in answering this question even if only half the whites who became blind and half the nonwhites who became blind were registered. However, if the fraction of the blind whites who were registered differed from the fraction of blind nonwhites who were registered, and these fractions were unknown (as of course they are), then we might not know how to use the observed data to estimate the real situation.

In our society it can be considered axiomatic that poor blind persons are more likely to be registered with the state agency for the blind than are persons who are rich or perhaps even middle-class. Because the nonwhites include a larger proportion of poor than the whites, it follows that, in general, registration of blind nonwhites is more complete than registration of blind whites.

The preceding argument does not lead to any estimate of the size of this reporting differential but only to its direction. However, there is some internal evidence in these data that can be used for further exploration of this point. A very rough indicator is the fact that Tables 6 and 26 both show a larger proportion of nonwhites than of whites in the most severe vision loss categories. It is reasonable to suppose that, other things being equal, the group with the more complete reporting would have the smaller proportion of most seriously disabled persons. The fact that the nonwhites have the higher proportion of severely affected cases is thus a rough pointer away from the notion that nonwhite registration completeness is very much greater than that for whites. Another indicator of reporting completeness comes from Table 29, which shows that the age-standardized rate of additions to the blindness register because of diabetic retino-

pathy for nonwhite females is about triple that for any other sex-race group. One possibility is that the rates are really about equal but that registration is three times more complete for nonwhite females than for the other groups. Evidence against this is the fact that the U.S. nonwhite female rate for diagnosed diabetes* at age 45 and over is double that for any other color-sex group [15]. In addition, the proportion of nonwhite females with elevated systolic blood pressure is higher than the proportion observed for any other color-sex group in the U.S. [16] and hypertension has been implicated in raising the risk of retinopathy among diabetics [17–18]. Taken altogether, these findings suggest that while nonwhite reporting may be more nearly complete than that for whites, the difference is probably not very great.

A curious feature of the ratio of nonwhite to white rates of register incidence and prevalence is its tendency to increase with age up to a maximum generally at about age 45–64 and thereafter to decrease with age. No explanation for this is known, but the pervasiveness of this finding for both sexes and various diagnostic categories points to some administrative aspect of reporting or case-finding that affects whites and nonwhites differently, rather than to a biological explanation.

The ratio of age-standardized nonwhite to white blindness rates for glaucoma is at the level of 8–10 for both register incidence and register prevalence data. Although nonwhites are reported to suffer more from glaucoma and/or blindness due to glaucoma than whites [19–20], we have not located any reports of a relative risk of the order of eight or more. Of course, part of the apparent increase in risk may reflect more complete reporting for nonwhites than whites, but as noted above, there are rough indications in these data to suggest that the reporting differential is not extreme. Clearly, research directed toward explaining this strong relationship between race and blindness from glaucoma should be encouraged. A most interesting finding is that, while the age-adjusted blindness rates for nonwhites are double or more the corresponding rates for whites for every other diagnostic category, the rates for the retinal disease categories (excepting only higher diabetic retinopathy rates for nonwhite females) are approximately equal for whites and nonwhites. Equivalent rates for retinal disease but higher rates for all other categories suggest that nonwhites have either special protection against retinal problems or special susceptibility to all other blinding eye diseases. The observation that retinal detachments heal spontaneously in Africans [19] is compatible with the first alternative.

Summary

Subject to important qualifications principally related to reporting completeness, the 1969–1970 MRA data indicate: rates for nonwhites are generally higher than those for whites with the ratio ranging from almost ten for glaucoma to almost unity for "other retinal disease"; the existence of a special hazard of blindness from diabetic retinopathy for nonwhite females and higher rates for males than females for blindness attributed to optic nerve disease. If these findings serve to stimulate research directed toward their explanation, the efforts in collecting and processing these data will be amply justified.

* Estimated rates for undiagnosed diabetes are not available for color-sex groups.

Bibliography

1 Goldstein H and Goldberg ID: The Model Reporting Area for Blindness Statistics. Sight Sav. Rev. 32:84–91, 1962

2 Goldstein H: Blindness register as a research tool. Public Health Rep. 79:289–295, 1964

3 Statistics for 1966 on Blindness in the Model Reporting Area. DHEW, U.S. Government Printing Office, 1969

4 Statistics for 1967 on Blindness in the Model Reporting Area. DHEW, U.S. Government Printing Office, 1970

5 Statistics on Blindness in the Model Reporting Area 1968. DHEW, U.S. Government Printing Office, 1971

6 Scheie AG and Albert DM: Adler's Textbook of Ophthalmology. Philadelphia, W.B. Saunders (8th Edition), 1969

7 Kolker AE and Hetherington J: Becker-Shaffer's Diagnosis and Therapy of the Glaucomas. St. Louis, C.V. Mosby (3rd Edition), 1970

8 Annual Tabulations of the Model Reporting Area for Blindness Statistics. 1962 Statistical Report. DHEW, PHS Publication No. 1176. U.S. Government Printing Office, 1964

9 Annual Tabulations of the Model Reporting Area for Blindness Statistics. 1963 Statistical Report. DHEW, PHS Publication No. 1312. U.S. Government Printing Office, 1965

10 Annual Tabulations of the Model Reporting Area for Blindness Statistics. 1964 Statistical Report. DHEW, PHS Publication No. 1419. U.S. Government Printing Office, 1966

11 The Model Reporting Area for Blindness Statistics. Annual Statistical Report 1965. DHEW, PHS Publication No. 1601. U.S. Government Printing Office, 1967

12 Josephson E: Problems in Studying Blind People. Proceedings Third Annual Conference of the Model Reporting Area for Blindness Statistics. DHEW, U.S. Government Printing Office, 1964

13 Haddad HM: The Adequacy of Blindness Reporting. Proceedings Sixth Annual Conference of the Model Reporting Area for Blindness Statistics. DHEW, U.S. Government Printing Office, 1967

14 Graham PA, Wallace J, Welsby E, et al: Evaluation of postal detection of registrable blindness. Br. J. Prev. Soc. Med. 22:238, 1968

15 Diabetes Source Book. DHEW, PHS Publication No. 1168. U.S. Government Printing Office, 1969

16 Gordon T: Blood Pressure of Adults by Race and Area. National Center for Health Statistics. DHEW, PHS Publication 1000, Series 11, No. 5, U.S. Government Printing Office, 1964

17 Balodimos MC, Aiello LM, Gleason RE, Marble A: Retinopathy in mild diabetes of long duration. Arch. Ophthalmol. 81:660–666, 1969

18 Kornerup T: Blood pressure and diabetic retinopathy. Acta Ophthalmol. 35: 163–174, 1957

19 Mann I: Culture, Race, Climate and Eye Disease. Springfield, Charles C. Thomas, 1966

20 Goldstein H, Goldberg ID, Rogot E, Moorhead HB: Reported incidence of blindness by cause in 1963. Sight Sav. Rev. 34:214–233, 1964

Table 1a.—Number of All Additions to Registers, MRA and Each MRA State, 1962–1970

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total	4,303	4,496	5,521	5,708	5,684	6,337	7,334	9,916	9,328
Connecticut	288	346	373	333	403	431	360	494	274
Georgia	(1)	(1)	(1)	(1)	(2)	553	574	508	420
Kansas	437	399	399	376	379	386	337	395	397
Louisiana	499	433	806	422	380	631	572	494	548
Massachusetts	947	1,001	957	989	1,011	1,045	1,144	1,175	1,307
New Hampshire	135	133	126	133	143	141	105	123	105
New Jersey	745	593	579	691	636	422	1,190	984	874
New Mexico	(1)	(1)	(2)	178	67	80	149	52	76
New York	(1)	(1)	(1)	(1)	(1)	(1)	(2)	3,143	2,781
North Carolina	1,036	1,103	1,243	1,264	1,157	1,187	1,326	1,063	974
Oregon	(1)	269	461	472	453	375	394	411	419
Rhode Island	99	117	99	94	79	132	144	138	155
South Dakota	(1)	(1)	(1)	(2)	116	71	86	79	106
Utah	(1)	(1)	(1)	151	149	155	148	112	120
Vermont	117	102	80	80	79	94	86	46	68
Virginia	(1)	(1)	398	525	632	634	719	699	704

[1] Not a member of MRA in this year.
[2] Not available.

Table 1b.—Rate of All Additions to Registers, MRA and Each MRA State, 1962–1970

[Rate per 100,000 population]

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total	16.3	15.6	16.5	15.8	15.3	15.1	17.2	16.3	15.2
Connecticut	11.0	12.7	13.5	11.8	14.0	14.8	12.2	16.5	9.0
Georgia	(1)	(1)	(1)	(1)	(2)	12.3	12.5	11.2	9.1
Kansas	19.7	18.0	17.9	16.7	16.7	16.9	14.7	17.7	17.7
Louisiana	14.8	12.7	23.2	11.9	10.5	17.2	15.4	13.7	15.0
Massachusetts	18.3	18.9	17.9	18.4	18.7	19.2	21.0	20.8	22.9
New Hampshire	21.7	20.7	19.3	19.8	21.2	20.4	14.9	17.0	14.2
New Jersey	11.7	9.0	8.7	10.2	9.2	6.0	16.8	13.9	12.1
New Mexico	(1)	(1)	(2)	17.6	6.7	8.0	15.0	5.1	7.5
New York	(1)	(1)	(1)	(1)	(1)	(1)	(2)	17.4	15.2
North Carolina	22.0	23.0	25.6	25.6	23.3	23.5	25.8	21.1	19.1
Oregon	(1)	14.5	24.6	24.4	23.0	18.9	19.7	19.9	19.9
Rhode Island	11.3	13.1	10.8	10.5	8.8	14.7	15.9	14.8	16.3
South Dakota	(1)	(1)	(1)	(2)	17.1	10.6	12.9	11.8	15.9
Utah	(1)	(1)	(1)	15.2	14.8	15.2	14.4	10.7	11.2
Vermont	30.2	25.2	19.6	19.8	19.2	22.4	20.0	10.5	15.2
Virginia	(1)	(1)	9.1	11.9	14.2	14.0	15.6	15.1	15.1

[1] Not a member of MRA in this year.
[2] Not available.

Table 1c.—Number of Persons on Registers, MRA and Each MRA State, as of December 31, 1962–1970

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total	42,474	43,362	51,910	54,892	61,037	61,548	93,341	95,553	99,347
Connecticut	3,168	3,346	3,199	3,256	3,402	3,522	3,523	3,741	3,766
Georgia	(1)	(1)	(1)	(1)	5,055	5,312	5,504	5,809	6,075
Kansas	3,076	3,158	3,231	3,263	3,299	3,031	2,955	2,980	3,056
Louisiana	7,477	5,673	6,219	6,027	6,110	6,306	6,446	6,572	6,811
Massachusetts	9,031	9,435	9,453	9,713	9,741	10,120	10,754	10,660	11,193
New Hampshire	1,065	1,128	1,084	1,039	1,048	1,096	1,122	1,152	1,199
New Jersey	6,535	6,773	6,887	7,408	7,295	7,441	8,186	8,088	8,201
New Mexico	(1)	(1)	2,873	2,606	2,532	2,561	2,540	1,822	1,576
New York	(1)	(1)	(1)	(1)	(1)	(1)	29,478	31,457	33,246
North Carolina	10,388	10,057	10,284	10,114	10,383	10,514	10,595	10,532	10,997
Oregon	(1)	2,088	2,169	2,331	2,489	2,577	2,671	2,799	2,953
Rhode Island	1,005	1,034	1,065	1,097	1,086	1,146	1,128	1,175	1,248
South Dakota	(1)	(1)	(1)	859	921	899	898	923	971
Utah	(1)	(1)	(1)	1,200	1,250	1,300	1,354	1,353	1,340
Vermont	729	670	691	676	695	719	727	690	701
Virginia	(1)	(1)	4,755	5,303	5,731	5,004	5,460	5,800	6,014

[1] Not a member of MRA in this year.

Table 1d.—Rate of Persons on Registers, MRA and Each MRA State, as of December 31, 1962–1970

[Rate per 100,000 population]

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total	161.2	150.7	150.2	149.4	146.7	146.4	153.8	157.2	161.7
Connecticut	120.7	123.2	115.7	115.1	118.2	120.7	119.0	124.7	123.9
Georgia	(1)	(1)	(1)	(1)	113.7	118.3	120.2	127.6	132.0
Kansas	138.9	142.4	145.2	145.2	145.0	132.9	129.0	133.3	135.9
Louisiana	221.8	166.1	179.3	169.3	168.9	172.2	173.7	181.6	186.9**
Massachusetts	174.1	178.2	177.1	181.2	180.3	186.2	197.8	188.7	196.4
New Hampshire	171.2	175.2	165.7	154.4	155.0	158.6	159.6	159.1	161.6
New Jersey	102.8	103.3	103.1	109.2	105.7	106.6	115.8	114.0	114.0
New Mexico	(1)	(1)	285.0	257.0	252.7	255.6	255.5	180.2	154.8
New York	(1)	(1)	(1)	(1)	(1)	(1)	162.1	173.7	182.1
North Carolina	220.8	210.1	212.0	204.9	208.7	207.8	206.5	209.3	216.0
Oregon	(1)	112.7	115.9	120.3	126.2	130.1	133.3	135.7	140.5
Rhode Island	114.5	115.9	116.5	123.1	120.9	127.2	124.2	126.1	131.2
South Dakota	(1)	(1)	(1)	125.2	135.6	134.6	135.0	138.2	145.8
Utah	(1)	(1)	(1)	120.7	124.1	127.2	131.3	129.2	125.4
Vermont	188.4	165.4	168.9	167.3	169.1	171.2	169.5	157.9	156.8
Virginia	(1)	(1)	108.6	120.0	128.4	110.2	118.6	125.7	129.2

[1] Not a member of MRA in this year.

Table 2a.—Number of All Additions to Registers by Age, Color, and Sex, MRA, 1969

Color and sex	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,916	223	965	1,326	2,718	1,449	1,865	907	463
Male	4,627	121	554	765	1,392	570	771	272	172
Female	5,289	102	411	561	1,326	869	1,094	635	291
White	4,569	106	457	573	1,188	634	993	514	104
Male	2,110	59	268	315	648	258	379	152	31
Female	2,459	47	189	258	540	376	614	362	73
Other	1,350	35	142	232	516	197	141	66	21
Male	617	19	73	127	228	74	68	21	7
Female	733	16	69	105	288	123	73	45	14
Unknown	3,997	82	366	521	1,014	618	731	327	338
Male	1,900	43	213	323	516	248	324	99	134
Female	2,097	39	153	198	498	370	407	228	204

Table 2b.—Number of All Additions to Registers by Age, Color, and Sex, MRA, 1970

Color and sex	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,328	206	898	1,203	2,626	1,383	1,707	893	412
Male	4,271	95	502	699	1,284	556	660	303	172
Female	5,057	111	396	504	1,342	827	1,047	590	240
White	4,288	95	403	563	1,116	590	858	515	148
Male	1,941	45	229	337	559	242	299	163	67
Female	2,347	50	174	226	557	348	559	352	81
Other	1,299	41	122	199	545	184	145	45	18
Male	606	19	63	105	250	75	65	23	6
Female	693	22	59	94	295	109	80	22	12
Unknown	3,741	70	373	441	965	609	704	333	246
Male	1,724	31	210	257	475	239	296	117	99
Female	2,017	39	163	184	490	370	408	216	147

Table 2c.—Rate of All Additions to Registers by Age, Color, and Sex, MRA, 1969

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	16.3	4.3	5.5	6.8	21.4	39.0	104.3	208.0
Male	15.7	4.6	6.2	8.1	23.1	36.5	111.4	178.9
Female	16.9	4.0	4.8	5.6	19.9	40.8	99.8	223.6
White	(1)	(1)	(1)	4.8	15.3	(1)	(1)	(1)
Male	(1)	(1)	(1)	5.4	17.4	(1)	(1)	(1)
Female	(1)	(1)	(1)	4.3	13.4	(1)	(1)	(1)
Other	(1)	(1)	(1)	13.0	54.7	(1)	(1)	(1)
Male	(1)	(1)	(1)	15.3	52.2	(1)	(1)	(1)
Female	(1)	(1)	(1)	10.9	56.8	(1)	(1)	(1)

[1] Not computed because color was unknown for more than 10 percent of additions for this age.

Table 2d.—Rate of All Additions to Registers by Age, Color, and Sex, MRA, 1970

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	15.2	4.0	5.1	6.1	20.4	36.8	94.5	203.0
Male	14.4	3.6	5.6	7.3	21.1	34.7	94.4	198.0
Female	16.0	4.4	4.5	5.0	19.9	38.4	94.6	205.6
White	(1)	(1)	(1)	4.7	14.2	(1)	(1)	(1)
Male	(1)	(1)	(1)	5.7	14.9	(1)	(1)	(1)
Female	(1)	(1)	(1)	3.7	13.6	(1)	(1)	(1)
Other	(1)	(1)	(1)	11.0	57.1	(1)	(1)	(1)
Male	(1)	(1)	(1)	12.5	56.6	(1)	(1)	(1)
Female	(1)	(1)	(1)	9.7	57.5	(1)	(1)	(1)

[1] Not computed because color was unknown for more than 10 percent of additions for this age.

Table 3a.—Number of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1969

State	Color and sex											
	MRA total			White			Other			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	9,916	4,627	5,289	4,569	2,110	2,459	1,350	617	733	3,997	1,900	2,097
Connecticut	494	217	277	446	189	257	47	28	19	1	0	1
Georgia	508	265	243	183	107	76	207	92	115	118	66	52
Kansas	395	184	211	322	147	175	36	19	17	37	18	19
Louisiana	494	259	235	267	144	123	203	110	93	24	5	19
Massachusetts	1,175	533	642	848	385	463	38	21	17	289	127	162
New Hampshire	123	55	68	123	55	68	0	0	0	0	0	0
New Jersey	984	440	544	632	282	350	113	49	64	239	109	130
New Mexico	52	35	17	44	30	14	5	3	2	3	2	1
New York	3,143	1,522	1,621	0	0	0	0	0	0	3,143	1,522	1,621
North Carolina	1,063	457	606	633	280	353	424	174	250	6	3	3
Oregon	411	182	229	331	153	178	11	6	5	69	23	46
Rhode Island	138	64	74	126	58	68	7	4	3	5	2	3
South Dakota	79	37	42	76	34	42	1	1	0	2	2	0
Utah	112	49	63	108	47	61	4	2	2	0	0	0
Vermont	46	16	30	46	16	30	0	0	0	0	0	0
Virginia	699	312	387	384	183	201	254	108	146	61	21	40

Table 3b.—Number of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1970

State	Color and sex											
	MRA total			White			Other			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	9,328	4,271	5,057	4,288	1,941	2,347	1,299	606	693	3,741	1,724	2,017
Connecticut	274	114	160	230	93	137	44	21	23	0	0	0
Georgia	420	200	220	174	90	84	193	81	112	53	29	24
Kansas	397	178	219	324	141	183	37	20	17	36	17	19
Louisiana	548	292	256	284	143	141	243	139	104	21	10	11
Massachusetts	1,307	588	719	826	390	436	43	16	27	438	182	256
New Hampshire	105	51	54	105	51	54	0	0	0	0	0	0
New Jersey	874	408	466	541	252	289	112	60	52	221	96	125
New Mexico	76	38	38	64	32	32	4	3	1	8	3	5
New York	2,781	1,304	1,477	0	0	0	0	0	0	2,781	1,304	1,477
North Carolina	974	409	565	586	255	331	386	154	232	2	0	2
Oregon	419	197	222	278	128	150	15	7	8	126	62	64
Rhode Island	155	60	95	145	55	90	7	3	4	3	2	1
South Dakota	106	43	63	97	37	60	4	3	1	5	3	2
Utah	120	57	63	115	53	62	5	4	1	0	0	0
Vermont	68	24	44	67	23	44	1	1	0	0	0	0
Virginia	704	308	396	452	198	254	205	94	111	47	16	31

Table 3c.—Rate of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1969

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	16.3	15.7	16.9	(1)	(1)	(1)	(1)	(1)	(1)
Connecticut	16.5	14.9	17.9	15.9	13.9	17.8	24.2	30.4	18.6
Georgia	11.2	12.0	10.4	(1)	(1)	(1)	(1)	(1)	(1)
Kansas	17.7	16.8	18.5	15.2	14.2	16.2	29.0	31.1	27.4
Louisiana	13.7	14.7	12.6	10.6	11.6	9.6	18.6	21.2	16.2
Massachusetts	20.8	19.7	21.8	(1)	(1)	(1)	(1)	(1)	(1)
New Hampshire	17.0	15.5	18.4	17.1	15.6	18.5	(2)	(2)	(2)
New Jersey	13.9	12.8	14.9	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	5.1	7.0	3.3	4.8	6.7	3.0	5.0	6.3	3.9
New York	17.4	17.6	17.1	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina	21.1	18.6	23.6	16.4	14.7	18.0	36.3	31.0	41.2
Oregon	19.9	18.0	21.8	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island	14.8	14.0	15.6	14.0	13.2	14.8	22.6	(2)	(2)
South Dakota	11.8	11.2	12.5	12.0	10.8	13.2	2.9	(2)	(2)
Utah	10.7	9.5	11.9	10.6	9.3	11.8	14.8	(2)	(2)
Vermont	10.5	7.5	13.5	10.6	7.5	13.5	(2)	(2)	(2)
Virginia	15.1	13.7	16.6	10.3	9.9	10.7	28.9	25.2	32.4

[1] Not computed because color was unknown for more than 10 percent of additions.
[2] Not computed because the estimated State population in 1969 was less than 25,000 for this color and sex.

Table 3d.—Rate of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1970

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	15.2	14.4	16.0	(1)	(1)	(1)	(1)	(1)	(1)
Connecticut	9.0	7.7	10.2	8.1	6.7	9.4	22.3	22.3	22.3
Georgia	9.1	8.9	9.3	(1)	(1)	(1)	(1)	(1)	(1)
Kansas	17.7	16.2	19.1	15.3	13.6	16.9	29.6	32.3	27.0
Louisiana	15.0	16.5	13.7	11.2	11.4	10.9	22.1	26.6	18.0
Massachusetts	22.9	21.6	24.2	(1)	(1)	(1)	(1)	(1)	(1)
New Hampshire	14.2	14.0	14.2	14.2	14.2	14.3	(2)	(2)	(2)
New Jersey	12.1	11.7	12.5	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	7.5	7.6	7.4	(1)	(1)	(1)	(1)	(1)	(1)
New York	15.2	14.9	15.5	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina	19.1	16.4	21.7	15.0	13.3	16.7	32.7	27.1	37.8
Oregon	19.9	19.1	20.7	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island	16.3	12.9	19.6	15.8	12.2	19.2	21.9	(2)	(2)
South Dakota	15.9	13.0	18.8	15.4	11.8	18.9	11.4	(2)	(2)
Utah	11.2	10.8	11.6	11.0	10.3	11.7	17.9	(2)	(2)
Vermont	15.2	11.0	19.2	15.1	10.6	19.3	(2)	(2)	(2)
Virginia	15.1	13.4	16.8	12.0	10.6	13.4	23.1	21.7	24.4

[1] Not computed because color was unknown for more than 10 percent of additions.
[2] Not computed because the estimated State population in 1970 was less than 25,000 for this color and sex.

Table 4a.—Number of All Additions to Registers by Age, MRA and Each MRA State, 1969

State	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,916	223	965	1,326	2,718	1,449	1,865	907	463
Connecticut	494	21	68	52	98	67	100	81	7
Georgia	508	0	43	103	285	31	10	7	29
Kansas	395	9	22	46	82	64	104	49	19
Louisiana	494	18	73	78	192	40	50	27	16
Massachusetts	1,175	18	84	99	266	209	314	146	39
New Hampshire	123	6	11	11	29	13	29	16	8
New Jersey	984	42	129	139	253	132	167	72	50
New Mexico	52	2	5	9	17	3	3	7	6
New York	3,143	50	268	454	835	502	569	247	218
North Carolina	1,063	14	79	116	272	202	237	135	8
Oregon	411	16	43	55	87	54	107	43	6
Rhode Island	138	8	22	10	38	20	24	7	9
South Dakota	79	0	1	9	21	7	22	18	1
Utah	112	2	6	18	18	16	33	18	1
Vermont	46	1	3	8	12	7	10	4	1
Virginia	699	16	108	119	213	82	86	30	45

Table 4b.—Number of All Additions to Registers by Age, MRA and Each MRA State, 1970

State	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,328	206	898	1,203	2,626	1,383	1,707	893	412
Connecticut	274	8	40	44	73	41	45	23	0
Georgia	420	0	37	83	238	28	11	7	16
Kansas	397	12	28	47	78	69	90	55	18
Louisiana	548	28	80	92	217	47	47	22	15
Massachusetts	1,307	24	81	117	232	198	301	163	191
New Hampshire	105	6	9	16	22	16	9	15	12
New Jersey	874	43	112	113	228	129	129	67	53
New Mexico	76	1	3	11	25	7	11	5	13
New York	2,781	33	252	364	822	483	535	241	51
North Carolina	974	22	77	113	261	172	211	118	0
Oregon	419	8	57	64	93	46	92	55	4
Rhode Island	155	5	12	13	42	22	42	18	1
South Dakota	106	0	3	9	19	11	30	32	2
Utah	120	1	5	19	15	21	40	19	0
Vermont	68	3	6	10	13	8	15	10	3
Virginia	704	12	96	88	248	85	99	43	33

Table 4c.—Rate of All Additions to Registers by Age, MRA and Each MRA State, 1969

[Rate per 100,000 population]

State	Age							
	Tot	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	16.3	4.3	5.5	6.8	21.4	39.0	104.3	208.0
Connecticut	16.5	8.4	8.0	5.5	14.9	38.7	109.9	(1)
Georgia	11.2	0	3.1	6.7	33.1	13.3	9.6	25.9
Kansas	17.7	5.2	3.4	6.7	17.9	41.6	119.5	(1)
Louisiana	13.7	5.2	6.2	7.0	28.5	20.2	59.5	(1)
Massachusetts	20.8	3.9	5.2	5.7	22.1	55.3	155.4	286.3
New Hampshire	17.0	9.4	5.2	4.9	19.9	27.7	(1)	(1)
New Jersey	13.9	7.2	6.5	6.2	15.9	30.3	80.7	153.2
New Mexico	5.1	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York	17.4	3.4	5.4	7.9	20.8	40.6	98.4	185.7
North Carolina	21.1	3.2	5.2	6.9	27.5	75.9	204.3	482.1
Oregon	19.9	9.9	7.2	8.7	19.7	40.3	150.7	(1)
Rhode Island	14.8	10.7	8.6	3.4	18.5	31.7	75.0	(1)
South Dakota	11.8	0	.5	4.9	15.7	14.9	81.5	(1)
Utah	10.7	1.8	1.7	5.4	10.3	33.3	(1)	(1)
Vermont	10.5	2.6	2.2	6.0	14.3	25.0	(1)	(1)
Virginia	15.1	4.1	7.9	7.5	23.5	35.5	81.9	111.1

[1] Not computed because the estimated State population in 1969 was less than 25,000 for this age.
[2] Not computed because age was unknown for more than 10 percent of additions.

Table 4d.—Rate of All Additions to Registers by Age, MRA and Each MRA State, 1970

[Rate per 100,000 population]

State	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	15.2	4.0	5.1	6.1	20.4	36.8	94.5	203.0
Connecticut	9.0	3.1	4.6	4.6	11.0	23.4	48.9	(1)
Georgia	9.1	0	2.6	5.4	27.4	11.9	10.4	25.9
Kansas	17.7	6.9	4.3	6.8	17.0	44.5	102.3	(1)
Louisiana	15.0	8.0	6.8	8.2	32.1	23.5	55.3	(1)
Massachusetts	22.9	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New Hampshire	14.2	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New Jersey	12.1	7.3	5.5	5.0	14.1	29.2	61.4	139.6
New Mexico	7.5	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York	15.2	2.2	5.1	6.3	20.3	38.8	91.8	179.9
North Carolina	19.1	5.0	5.0	6.6	26.1	63.9	180.3	406.9
Oregon	19.9	4.8	9.3	9.9	20.6	33.6	126.0	(1)
Rhode Island	16.3	6.6	4.6	4.3	20.0	34.4	131.3	(1)
South Dakota	15.9	0	1.4	4.9	14.3	23.4	111.1	(1)
Utah	11.2	.9	1.4	5.6	8.4	42.9	(1)	(1)
Vermont	15.2	7.5	4.4	7.4	15.1	27.6	(1)	(1)
Virginia	15.1	3.1	7.0	5.5	27.1	36.5	93.4	159.3

[1] Not computed because the estimated State population in 1970 was less than 25,000 for this age.
[2] Not computed because age was unknown for more than 10 percent of additions.

Table 5a.—Number of All Additions to Registers by Visual Acuity, MRA and Each MRA State, 1969

State	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,916	729	911	94	1,573	1,201	1,429	2,573	885	521
Connecticut	494	37	38	8	69	45	72	115	28	82
Georgia	508	30	35	2	77	57	87	141	58	21
Kansas	395	26	37	2	75	32	55	121	25	22
Louisiana	494	40	40	5	90	15	89	151	39	25
Massachusetts	1,175	49	74	11	162	162	357	275	82	3
New Hampshire	123	10	11	1	20	12	23	30	14	2
New Jersey	984	54	94	17	109	131	153	257	61	108
New Mexico	52	3	3	1	4	3	16	15	3	4
New York	3,143	322	326	30	586	527	190	702	386	74
North Carolina	1,063	42	108	1	188	62	157	324	71	110
Oregon	411	28	28	4	56	69	78	110	37	1
Rhode Island	138	10	14	4	30	10	24	36	4	6
South Dakota	79	5	8	0	3	10	10	16	5	22
Utah	112	7	10	6	15	11	19	39	4	1
Vermont	46	4	4	1	7	7	8	11	1	3
Virginia	699	62	81	1	82	48	91	230	67	37

Table 5b.—Number of All Additions to Registers by Visual Acuity, MRA and Each MRA State, 1970

State	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,328	560	798	98	1,366	1,180	1,564	2,590	826	346
Connecticut	274	17	22	4	33	30	45	97	13	13
Georgia	420	34	47	3	50	47	52	101	67	19
Kansas	397	29	36	4	75	25	65	107	28	28
Louisiana	548	32	50	5	81	37	102	151	57	33
Massachusetts	1,307	44	72	20	206	189	346	335	78	17
New Hampshire	105	5	10	3	8	5	27	37	7	3
New Jersey	874	47	83	10	100	110	156	246	51	71
New Mexico	76	10	8	0	12	3	16	21	2	4
New York	2,781	189	259	24	417	517	300	704	342	29
North Carolina	974	50	84	1	166	61	154	307	68	83
Oregon	419	23	22	7	66	57	82	119	43	0
Rhode Island	155	9	15	7	23	24	27	39	5	6
South Dakota	106	11	6	3	13	13	20	31	0	9
Utah	120	6	3	3	18	8	31	46	5	0
Vermont	68	4	3	1	13	7	7	23	6	4
Virginia	704	50	78	3	85	47	134	226	54	27

Table 5c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to MRA and Each MRA State, 1969

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9	5.3
Connecticut	100.0	7.5	7.7	1.6	14.0	9.1	14.6	23.3	5.7	16.6
Georgia	100.0	5.9	6.9	.4	15.2	11.2	17.1	27.8	11.4	4.1
Kansas	100.0	6.6	9.4	.5	19.0	8.1	13.9	30.6	6.3	5.6
Louisiana	100.0	8.1	8.1	1.0	18.2	3.0	18.0	30.6	7.9	5.1
Massachusetts	100.0	4.2	6.3	.9	13.8	13.8	30.4	23.4	7.0	.3
New Hampshire	100.0	8.1	8.9	.8	16.3	9.8	18.7	24.4	11.4	1.6
New Jersey	100.0	5.5	9.6	1.7	11.1	13.3	15.5	26.1	6.2	11.0
New Mexico	100.0	5.8	5.8	1.9	7.7	5.8	30.8	28·8	5.8	7.7
New York	100.0	10.2	10.4	1.0	18.6	16.8	6.0	22.3	12.3	2.4
North Carolina	100.0	4.0	10.2	.1	17.7	5.8	14.8	30.5	6.7	10.3
Oregon	100.0	6.8	6.8	1.0	13.6	16.8	19.0	26.8	9.0	.2
Rhode Island	100.0	7.2	10.1	2.9	21.7	7.2	17.4	26.1	2.9	4.3
South Dakota	100.0	6.3	10.1	0	3.8	12.7	12.7	20.3	6.3	27.8
Utah	100.0	6.2	8.9	5.4	13.4	9.8	17.0	34.8	3.6	.9
Vermont	100.0	8.7	8.7	2.2	15.2	15.2	17.4	23.9	2.2	6.5
Virginia	100.0	8.9	11.6	.1	11.7	6.9	13.0	32.9	9.6	5.3

Table 5d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to MRA and Each MRA State, 1970

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9	3.7
Connecticut	100.0	6.2	8.0	1.5	12.0	10.9	16.4	35.4	4.7	4.7
Georgia	100.0	8.1	11.2	.7	11.9	11.2	12.4	24.0	16.0	4.5
Kansas	100.0	7.3	9.1	1.0	18.9	6.3	16.4	27.0	7.1	7.1
Louisiana	100.0	5.8	9.1	.9	14.8	6.8	18.6	27.6	10.4	6.0
Massachusetts	100.0	3.4	5.5	1.5	15.8	14.5	26.5	25.6	6.0	1.3
New Hampshire	100.0	4.8	9.5	2.9	7.6	4.8	25.7	35.2	6.7	2.9
New Jersey	100.0	5.4	9.5	1.1	11.4	12.6	17.8	28.1	5.8	8.1
New Mexico	100.0	13.2	10.5	0	15.8	3.9	21.1	27.6	2.6	5.3
New York	100.0	6.8	9.3	.9	15.0	18.6	10.8	25.3	12.3	1.0
North Carolina	100.0	5.1	8.6	.1	17.0	6.3	15.8	31.5	7.0	8.5
Oregon	100.0	5.5	5.3	1.7	15.8	13.6	19.6	28.4	10.3	0
Rhode Island	100.0	5.8	9.7	4.5	14.8	15.5	17.4	25.2	3.2	3.9
South Dakota	100.0	10.4	5.7	2.8	12.3	12.3	18.9	29.2	0	8.5
Utah	100.0	5.0	2.5	2.5	15.0	6.7	25.8	38.3	4.2	0
Vermont	100.0	5.9	4.4	1.5	19.1	10.3	10.3	33.8	8.8	5.9
Virginia	100.0	7.1	11.1	.4	12.1	6.7	19.0	32.1	7.7	3.8

Table 6a.—Number of All Additions to Registers by Visual Acuity, Color, and Sex, MRA, 1969

Color and sex	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,916	729	911	94	1,573	1,201	1,429	2,573	885	521
Male	4,627	363	424	53	682	555	624	1,209	467	250
Female	5,289	366	487	41	891	646	805	1,364	418	271
White	4,569	265	365	46	692	469	857	1,280	299	296
Male	2,110	128	175	30	302	214	370	603	149	139
Female	2,459	137	190	16	390	255	487	677	150	157
Other	1,350	95	153	13	201	103	188	365	142	90
Male	617	43	61	7	85	55	79	165	82	40
Female	733	52	92	6	116	48	109	200	60	50
Unknown	3,997	369	393	35	680	629	384	928	444	135
Male	1,900	192	188	16	295	286	175	441	236	71
Female	2,097	177	205	19	385	343	209	487	208	64

Table 6b.—Number of All Additions to Registers by Visual Acuity, Color, and Sex, MRA, 1970

Color and sex	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,328	560	798	98	1,366	1,180	1,564	2,590	826	346
Male	4,271	281	353	40	595	504	693	1,198	451	156
Female	5,057	279	445	58	771	676	871	1,392	375	190
White	4,288	224	336	56	609	436	865	1,284	277	201
Male	1,941	110	144	23	271	191	368	586	157	91
Female	2,347	114	192	33	338	245	497	698	120	110
Other	1,299	99	150	10	212	110	163	339	146	70
Male	606	55	64	7	93	39	71	153	91	33
Female	693	44	86	3	119	71	92	186	55	37
Unknown	3,741	237	312	32	545	634	536	967	403	75
Male	1,724	116	145	10	231	274	254	459	203	32
Female	2,017	121	167	22	314	360	282	508	200	43

Table 6c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Color and Sex, MRA, 1969

Color and sex	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9	5.3
Male	100.0	7.8	9.2	1.1	14.7	12.0	13.5	26.1	10.1	5.4
Female	100.0	6.9	9.2	.8	16.8	12.2	15.2	25.8	7.9	5.1
White	100.0	5.8	8.0	1.0	15.1	10.3	18.8	28.0	6.5	6.5
Male	100.0	6.1	8.3	1.4	14.3	10.1	17.5	28.6	7.1	6.6
Female	100.0	5.6	7.7	.7	15.9	10.4	19.8	27.5	6.1	6.4
Other	100.0	7.0	11.3	1.0	14.9	7.6	13.9	27.0	10.5	6.7
Male	100.0	7.0	9.9	1.1	13.8	8.9	12.8	26.7	13.3	6.5
Female	100.0	7.1	12.6	.8	15.8	6.5	14.9	27.3	8.2	6.8
Unknown	100.0	9.2	9.8	.9	17.0	15.7	9.6	23.2	11.1	3.4
Male	100.0	10.1	9.9	.8	15.5	15.1	9.2	23.2	12.4	3.7
Female	100.0	8.4	9.8	.9	18.4	16.4	10.0	23.2	9.9	3.1

Table 6d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Color and Sex, MRA, 1970

Color and sex	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9	3.7
Male	100.0	6.6	8.3	.9	13.9	11.8	16.2	28.0	10.6	3.7
Female	100.0	5.5	8.8	1.1	15.2	13.4	17.2	27.5	7.4	3.8
White	100.0	5.2	7.8	1.3	14.2	10.2	20.2	29.9	6.5	4.7
Male	100.0	5.7	7.4	1.2	14.0	9.8	19.0	30.2	8.1	4.7
Female	100.0	4.9	8.2	1.4	14.4	10.4	21.2	29.7	5.1	4.7
Other	100.0	7.6	11.5	.8	16.3	8.5	12.5	26.1	11.3	5.4
Male	100.0	9.1	10.6	1.2	15.3	6.4	11.7	25.2	15.0	5.4
Female	100.0	6.3	12.4	.4	17.2	10.2	13.3	26.8	7.9	5.3
Unknown	100.0	6.3	8.3	.9	14.6	16.9	14.3	25.8	10.8	2.0
Male	100.0	6.7	8.4	.6	13.4	15.9	14.7	26.6	11.8	1.9
Female	100.0	6.0	8.3	1.1	15.6	17.8	14.0	25.2	9.9	2.1

Table 7a.—Number of All Additions to Registers by Visual Acuity and Age, MRA, 1969

Age	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,916	729	911	94	1,573	1,201	1,429	2,573	885	521
Under 5	223	51	47	3	15	2	12	12	0	81
5–19	965	82	70	7	70	94	127	383	52	80
20–44	1,326	151	129	14	166	129	167	357	152	61
45–64	2,718	172	252	27	432	307	404	685	362	77
65–74	1,449	98	136	11	267	167	204	379	131	56
75–84	1,865	87	155	17	370	285	310	443	117	81
85 and over	907	54	94	10	179	149	138	192	28	63
Unknown	463	34	28	5	74	68	67	122	43	22

Table 7b.—Number of All Additions to Registers by Visual Acuity and Age, MRA, 1970

Age	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	9,328	560	798	98	1,366	1,180	1,564	2,590	826	346
Under 5	206	45	31	5	10	4	10	8	0	93
5–19	898	73	70	6	73	73	124	367	48	64
20–44	1,203	112	99	12	151	128	169	369	123	40
45–64	2,626	144	210	24	399	351	410	686	352	50
65–74	1,383	62	132	15	216	176	240	386	137	19
75–84	1,707	63	144	17	284	260	337	456	111	35
85 and over	893	44	89	13	179	139	168	204	25	32
Unknown	412	17	23	6	54	49	106	114	30	13

Table 7c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Age, MRA, 1969

Age	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9	5.3
Under 5	100.0	22.9	21.1	1.3	6.7	.9	5.4	5.4	0	36.3
5–19	100.0	8.5	7.3	.7	7.3	9.7	13.2	39.7	5.4	8.3
20–44	100.0	11.4	9.7	1.1	12.5	9.7	12.6	26.9	11.5	4.6
45–64	100.0	6.3	9.3	1.0	15.9	11.3	14.9	25.2	13.3	2.8
65–74	100.0	6.8	9.4	.8	18.4	11.5	14.1	26.2	9.0	3.9
75–84	100.0	4.7	8.3	.9	19.8	15.3	16.6	23.8	6.3	4.3
85 and over	100.0	6.0	10.4	1.1	19.7	16.4	15.2	21.2	3.1	6.9
Unknown	100.0	7.3	6.0	1.1	16.0	14.7	14.5	26.3	9.3	4.8

Table 7d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Age, MRA, 1970

Age	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9	3.7
Under 5	100.0	21.8	15.0	2.4	4.9	1.9	4.9	3.9	0	45.1
5–19	100.0	8.1	7.8	.7	8.1	8.1	13.8	40.9	5.3	7.1
0–44	100.0	9.3	8.2	1.0	12.6	10.6	14.0	30.7	10.2	3.3
5–64	100.0	5.5	8.0	.9	15.2	13.4	15.6	26.1	13.4	1.9
5–74	100.0	4.5	9.5	1.1	15.6	12.7	17.4	27.9	9.9	1.4
5–84	100.0	3.7	8.4	1.0	16.6	15.2	19.7	26.7	6.5	2.1
5 and over	100.0	4.9	10.0	1.5	20.0	15.6	18.8	22.8	2.8	3.6
Unknown	100.0	4.1	5.6	1.5	13.1	11.9	25.7	27.7	7.3	3.2

Table 8a.—Number of First Additions to Registers by Age When Blinded, MRA and Each MRA State, 1969

State	Age when blinded									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,422	999	133	247	629	1,348	818	701	214	4,333
Connecticut	482	82	9	22	40	94	79	89	43	24
Georgia	499	25	5	8	27	37	1	0	0	396
Kansas	381	29	2	10	29	73	58	64	20	96
Louisiana	470	98	7	23	64	145	34	38	10	51
Massachusetts	1,163	4	2	2	1	4	1	3	0	1,146
New Hampshire	120	9	1	4	2	4	2	2	2	94
New Jersey	927	135	29	45	92	171	94	68	12	281
New Mexico	51	3	0	0	9	6	0	1	0	32
New York	2,921	199	45	43	148	313	208	108	24	1,833
North Carolina	971	87	11	34	91	265	213	186	67	17
Oregon	403	156	5	18	18	39	40	42	10	75
Rhode Island	132	23	3	6	17	35	15	17	0	16
South Dakota	79	5	0	0	7	18	13	10	8	18
Utah	111	12	2	5	11	22	15	35	8	1
Vermont	45	4	0	2	9	12	7	5	1	5
Virginia	667	128	12	25	64	110	38	33	9	248

Table 8b.—Number of First Additions to Registers by Age When Blinded, MRA and Each MRA State, 1970

State	Age when blinded									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	9,045	875	117	242	627	1,344	735	657	194	4,254
Connecticut	263	32	10	8	42	71	41	36	12	11
Georgia	418	26	3	7	14	44	0	0	0	324
Kansas	381	37	6	8	32	71	64	60	23	80
Louisiana	517	99	15	30	75	189	41	40	13	15
Massachusetts	1,297	26	4	6	4	8	7	9	2	1,231
New Hampshire	98	13	1	1	4	4	3	9	2	61
New Jersey	812	122	24	39	86	168	68	61	22	222
New Mexico	70	2	0	1	4	4	1	0	0	58
New York	2,779	174	22	51	158	290	199	120	30	1,735
North Carolina	917	78	13	38	106	271	179	173	54	5
Oregon	397	113	4	6	15	25	15	19	7	193
Rhode Island	152	18	4	5	13	38	29	28	7	10
South Dakota	106	5	0	1	9	10	16	14	3	48
Utah	115	12	2	4	9	19	18	36	10	5
Vermont	66	12	2	0	8	15	6	15	2	6
Virginia	657	106	7	37	48	117	48	37	7	250

Table 8c.—Percent Distribution of First Additions to Registers by Age When Blinded, According to MRA and Each MRA State, 1969

State	Age when blinded									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	100.0	10.6	1.4	2.6	6.7	14.3	8.7	7.4	2.3	46.0
Connecticut	100.0	17.0	1.9	4.6	8.3	19.5	16.4	18.5	8.9	5.0
Georgia	100.0	5.0	1.0	1.6	5.4	7.4	.2	0	0	79.4
Kansas	100.0	7.6	.5	2.6	7.6	19.2	15.2	16.8	5.2	25.2
Louisiana	100.0	20.9	1.5	4.9	13.6	30.9	7.2	8.1	2.1	10.9
Massachusetts	100.0	.3	.2	.2	.1	.3	.1	.3	0	98.5
New Hampshire	100.0	7.5	.8	3.3	1.7	3.3	1.7	1.7	1.7	78.3
New Jersey	100.0	14.6	3.1	4.9	9.9	18.4	10.1	7.3	1.3	30.3
New Mexico	100.0	5.9	0	0	17.6	11.8	0	2.0	0	62.7
New York	100.0	6.8	1.5	1.5	5.1	10.7	7.1	3.7	.8	62.8
North Carolina	100.0	9.0	1.1	3.5	9.4	27.3	21.9	19.2	6.9	1.8
Oregon	100.0	38.7	1.2	4.5	4.5	9.7	9.9	10.4	2.5	18.6
Rhode Island	100.0	17.4	2.3	4.5	12.9	26.5	11.4	12.9	0	12.1
South Dakota	100.0	6.3	0	0	8.9	22.8	16.5	12.7	10.1	22.8
Utah	100.0	10.8	1.8	4.5	9.9	19.8	13.5	31.5	7.2	.9
Vermont	100.0	8.9	0	4.4	20.0	26.7	15.6	11.1	2.2	11.1
Virginia	100.0	19.2	1.8	3.7	9.6	16.5	5.7	4.9	1.3	37.2

Table 8d.—Percent Distribution of First Additions to Registers by Age When Blinded, According to MRA and Each MRA State, 1970

State	Age when blinded									
	Total	At birth	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	100.0	9.7	1.3	2.7	6.9	14.9	8.1	7.3	2.1	47.0
nnecticut	100.0	12.2	3.8	3.0	16.0	27.0	15.6	13.7	4.6	4.2
orgia	100.0	6.2	.7	1.7	3.3	10.5	0	0	0	77.5
nsas	100.0	9.7	1.6	2.1	8.4	18.6	16.8	15.7	6.0	21.0
uisiana	100.0	19.1	2.9	5.8	14.5	36.6	7.9	7.7	2.5	2.9
assachusetts	100.0	2.0	.3	.5	.3	.6	.5	.7	.2	94.9
w Hampshire	100.0	13.3	1.0	1.0	4.1	4.1	3.1	9.2	2.0	62.2
w Jersey	100.0	15.0	3.0	4.8	10.6	20.7	8.4	7.5	2.7	27.3
w Mexico	100.0	2.9	0	1.4	5.7	5.7	1.4	0	0	82.9
w York	100.0	6.3	.8	1.8	5.7	10.4	7.2	4.3	1.1	62.4
rth Carolina	100.0	8.5	1.4	4.1	11.6	29.6	19.5	18.9	5.9	.5
egon	100.0	28.5	1.0	1.5	3.8	6.3	3.8	4.8	1.8	48.6
ode Island	100.0	11.8	2.6	3.3	8.6	25.0	19.1	18.4	4.6	6.6
uth Dakota	100.0	4.7	0	.9	8.5	9.4	15.1	13.2	2.8	45.3
tah	100.0	10.4	1.7	3.5	7.8	16.5	15.7	31.3	8.7	4.3
rmont	100.0	18.2	3.0	0	12.1	22.7	9.1	22.7	3.0	9.1
rginia	100.0	16.1	1.1	5.6	7.3	17.8	7.3	5.6	1.1	38.1

Table 9a.—Number of First Additions to Registers by Discipline of Examiner, MRA and Each MRA State, 1969

State	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	9,422	8,545	247	321	150	159
Connecticut	482	349	13	16	104	0
Georgia	499	449	22	14	14	0
Kansas	381	345	19	12	0	5
Louisiana	470	428	15	19	4	4
Massachusetts	1,163	1,040	16	103	0	4
New Hampshire	120	93	7	17	1	2
New Jersey	927	834	50	29	7	7
New Mexico	51	47	3	0	0	1
New York	2,921	2,765	30	14	5	107
North Carolina	971	913	21	30	1	6
Oregon	403	360	15	26	1	1
Rhode Island	132	123	0	4	4	1
South Dakota	79	50	8	5	0	16
Utah	111	104	4	1	2	0
Vermont	45	36	0	3	5	1
Virginia	667	609	24	28	2	4

[1] Eye-ear-nose-throat specialist.

Table 9b.—Number of First Additions to Registers by Discipline of Examiner, MRA and Each MRA State, 1970

State	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	9,045	8,353	184	405	63	40
Connecticut	263	224	9	13	17	0
Georgia	418	365	31	15	6	1
Kansas	381	338	10	29	1	3
Louisiana	517	481	13	21	2	0
Massachusetts	1,297	1,151	11	132	1	2
New Hampshire	98	85	5	7	0	1
New Jersey	812	744	33	27	4	4
New Mexico	70	67	1	0	2	0
New York	2,779	2,719	7	23	22	8
North Carolina	917	833	31	51	0	2
Oregon	397	363	15	17	0	2
Rhode Island	152	147	3	1	1	0
South Dakota	106	75	4	20	0	7
Utah	115	107	1	4	2	1
Vermont	66	55	2	7	2	0
Virginia	657	599	8	38	3	9

[1] Eye-ear-nose-throat specialist.

Table 9c.—Percent Distribution of First Additions to Registers by Discipline of Examiner, According to MRA and Each MRA State, 1969

State	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	90.7	2.6	3.4	1.6	1.7
Connecticut	100.0	72.4	2.7	3.3	21.6	0
Georgia	100.0	90.0	4.4	2.8	2.8	0
Kansas	100.0	90.6	5.0	3.1	0	1.3
Louisiana	100.0	91.1	3.2	4.0	.9	.9
Massachusetts	100.0	89.4	1.4	8.9	0	.3
New Hampshire	100.0	77.5	5.8	14.2	.8	1.7
New Jersey	100.0	90.0	5.4	3.1	.8	.8
New Mexico	100.0	92.2	5.9	0	0	2.0
New York	100.0	94.7	1.0	.5	.2	3.7
North Carolina	100.0	94.0	2.2	3.1	.1	.6
Oregon	100.0	89.3	3.7	6.5	.2	.2
Rhode Island	100.0	93.2	0	3.0	3.0	.8
South Dakota	100.0	63.3	10.1	6.3	0	20.3
Utah	100.0	93.7	3.6	.9	1.8	0
Vermont	100.0	80.0	0	6.7	11.1	2.2
Virginia	100.0	91.3	3.6	4.2	.3	.6

[1] Eye-ear-nose-throat specialist.

Table 9d.—Percent Distribution of First Additions to Registers by Discipline of Examiner, According to MRA and Each MRA State, 1970

State	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	92.3	2.0	4.5	.7	.4
Connecticut	100.0	85.2	3.4	4.9	6.5	0
Georgia	100.0	87.3	7.4	3.6	1.4	.2
Kansas	100.0	88.7	2.6	7.6	.3	.8
Louisiana	100.0	93.0	2.5	4.1	.4	0
Massachusetts	100.0	88.7	.8	10.2	.1	.2
New Hampshire	100.0	86.7	5.1	7.1	0	1.0
New Jersey	100.0	91.6	4.1	3.3	.5	.5
New Mexico	100.0	95.7	1.4	0	2.9	0
New York	100.0	97.8	.3	.8	.8	.3
North Carolina	100.0	90.8	3.4	5.6	0	.2
Oregon	100.0	91.4	3.8	4.3	0	.5
Rhode Island	100.0	96.7	2.0	.7	.7	0
South Dakota	100.0	70.8	3.8	18.9	0	6.6
Utah	100.0	93.0	.9	3.5	1.7	.9
Vermont	100.0	83.3	3.0	10.6	3.0	0
Virginia	100.0	91.2	1.2	5.8	.5	1.4

[1] Eye-ear-nose-throat specialist.

Table 10a.—Number of First Additions to Registers by Visual Acuity and Discipline of Examiner, MRA, 1969

Visual acuity	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	9,422	8,545	247	321	150	159
Absolute blindness	664	549	61	18	29	7
Light perception	839	769	17	34	13	6
Light projection	90	84	2	4	0	0
Less than 5/200	1,502	1,430	20	36	11	5
5/200 to less than 10/200	1,145	1,089	13	31	8	4
10/200 to less than 20/200	1,376	1,264	18	83	5	6
20/200	2,442	2,277	50	94	15	6
Restricted field	857	794	4	10	5	44
Unknown	507	289	62	11	64	81

[1] Eye-ear-nose-throat specialist.

Table 10b.—Number of First Additions to Registers by Visual Acuity and Discipline of Examiner, MRA, 1970

Visual acuity	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	9,045	8,353	184	405	63	40
Absolute blindness	535	453	44	23	10	5
Light perception	772	693	15	53	6	5
Light projection	94	86	6	2	0	0
Less than 5/200	1,321	1,260	14	39	7	1
5/200 to less than 10/200	1,156	1,094	11	45	4	2
10/200 to less than 20/200	1,518	1,401	17	97	1	2
20/200	2,523	2,361	26	112	18	6
Restricted field	796	758	4	22	5	7
Unknown	330	247	47	12	12	12

[1] Eye-ear-nose-throat specialist.

Table 10c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Discipline of Examiner, MRA, 1969

Visual acuity	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	7.0	6.4	24.7	5.6	19.3	4.4
Light perception	8.9	9.0	6.9	10.6	8.7	3.8
Light projection	1.0	1.0	.8	1.2	0	0
Less than 5/200	15.9	16.7	8.1	11.2	7.3	3.1
5/200 to less than 10/200	12.2	12.7	5.3	9.7	5.3	2.5
10/200 to less than 20/200	14.6	14.8	7.3	25.9	3.3	3.8
20/200	25.9	26.6	20.2	29.3	10.0	3.8
Restricted field	9.1	9.3	1.6	3.1	3.3	27.7
Unknown	5.4	3.4	25.1	3.4	42.7	50.9

[1] Eye-ear-nose-throat specialist.

Table 10d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Discipline of Examiner, MRA, 1970

Visual acuity	Discipline of examiner					
	Total	Ophthalmologist or EENT M.D. [1]	Other M.D.	Optometrist	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	5.9	5.4	23.9	5.7	15.9	12.5
Light perception	8.5	8.3	8.2	13.1	9.5	12.5
Light projection	1.0	1.0	3.3	.5	0	0
Less than 5/200	14.6	15.1	7.6	9.6	11.1	2.5
5/200 to less than 10/200	12.8	13.1	6.0	11.1	6.3	5.0
10/200 to less than 20/200	16.8	16.8	9.2	24.0	1.6	5.0
20/200	27.9	28.3	14.1	27.7	28.6	15.0
Restricted field	8.8	9.1	2.2	5.4	7.9	17.5
Unknown	3.6	3.0	25.5	3.0	19.0	30.0

[1] Eye-ear-nose-throat specialist.

Table 11a.—Number of First Additions to Registers by Affection, MRA and Each MRA State, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Connecticut	349	28	15	2	5	20	16	6	71	71	18	32	41	24
Georgia	449	71	12	9	15	71	25	5	37	56	45	24	52	27
Kansas	345	33	6	4	6	79	8	3	66	39	24	48	20	9
Louisiana	428	68	9	3	9	61	19	3	54	49	38	42	56	17
Massachusetts	1,040	114	36	7	14	78	26	10	267	182	46	142	81	37
New Hampshire	93	10	3	1	2	12	1	1	10	17	9	11	13	3
New Jersey	834	90	22	9	12	129	36	8	121	121	52	89	82	63
New Mexico	47	4	2	2	2	8	2	0	9	1	5	6	5	1
New York	2,765	280	114	24	55	259	106	41	489	473	181	369	279	95
North Carolina	913	107	24	7	15	210	16	2	148	101	49	125	60	49
Oregon	360	28	6	4	9	49	10	4	103	46	19	45	31	6
Rhode Island	123	6	2	1	2	17	1	1	36	25	6	11	11	4
South Dakota	50	9	0	0	2	6	1	0	8	8	3	7	3	3
Utah	104	5	1	0	1	7	8	1	30	11	5	12	5	18
Vermont	36	0	3	1	2	8	0	0	6	11	3	0	2	0
Virginia	609	84	12	4	10	78	22	4	103	71	53	44	71	53

Table 11b.—Number of First Additions to Registers by Affection, MRA and Each MRA State, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Connecticut	224	13	9	1	5	11	3	2	39	57	15	21	23	25
Georgia	365	67	9	0	8	55	14	4	33	47	29	30	36	33
Kansas	338	30	3	2	3	63	13	6	64	42	21	55	27	9
Louisiana	481	75	7	10	11	75	23	8	59	60	36	33	64	20
Massachusetts	1,151	109	16	12	23	77	15	9	304	197	57	185	90	57
New Hampshire	85	8	5	2	3	9	2	2	16	11	4	10	12	1
New Jersey	744	85	18	7	10	104	22	8	116	123	44	57	79	71
New Mexico	67	3	4	0	4	14	2	0	10	13	2	7	6	2
New York	2,719	299	107	19	63	241	84	37	521	472	174	380	241	81
North Carolina	833	111	20	7	21	178	16	1	130	94	44	105	68	38
Oregon	363	20	11	1	9	38	18	5	97	51	29	45	35	4
Rhode Island	147	11	1	1	4	9	2	2	38	39	6	18	13	3
South Dakota	75	8	0	1	0	6	2	0	18	18	1	8	8	5
Utah	107	4	3	0	1	6	3	1	40	20	6	11	4	8
Vermont	55	4	0	1	0	6	0	1	19	5	5	5	8	1
Virginia	599	61	18	4	8	91	22	11	99	77	40	67	60	41

Table 11c.—Percent Distribution of First Additions to Registers by Affection, According to MRA and Each MRA State, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5	11.8	9.5	4.8
Connecticut	100.0	8.0	4.3	.6	1.4	5.7	4.6	1.7	20.3	20.3	5.2	9.2	11.7	6.9
Georgia	100.0	15.8	2.7	2.0	3.3	15.8	5.6	1.1	8.2	12.5	10.0	5.3	11.6	6.0
Kansas	100.0	9.6	1.7	1.2	1.7	22.9	2.3	.9	19.1	11.3	7.0	13.9	5.8	2.6
Louisiana	100.0	15.9	2.1	.7	2.1	14.3	4.4	.7	12.6	11.4	8.9	9.8	13.1	4.0
Massachusetts	100.0	11.0	3.5	.7	1.3	7.5	2.5	1.0	25.7	17.5	4.4	13.7	7.8	3.6
New Hampshire	100.0	10.8	3.2	1.1	2.2	12.9	1.1	1.1	10.8	18.3	9.7	11.8	14.0	3.2
New Jersey	100.0	10.8	2.6	1.1	1.4	15.5	4.3	1.0	14.5	14.5	6.2	10.7	9.8	7.6
New Mexico	100.0	8.5	4.3	4.3	4.3	17.0	4.3	0	19.1	2.1	10.6	12.8	10.6	2.1
New York	100.0	10.1	4.1	.9	2.0	9.4	3.8	1.5	17.7	17.1	6.5	13.3	10.1	3.4
North Carolina	100.0	11.7	2.6	.8	1.6	23.0	1.8	.2	16.2	11.1	5.4	13.7	6.6	5.4
Oregon	100.0	7.8	1.7	1.1	2.5	13.6	2.8	1.1	28.6	12.8	5.3	12.5	8.6	1.7
Rhode Island	100.0	4.9	1.6	.8	1.6	13.8	.8	.8	29.3	20.3	4.9	8.9	8.9	3.3
South Dakota	100.0	18.0	0	0	4.0	12.0	2.0	0	16.0	16.0	6.0	14.0	6.0	6.0
Utah	100.0	4.8	1.0	0	1.0	6.7	7.7	1.0	28.8	10.6	4.8	11.5	4.8	17.3
Vermont	100.0	0	8.3	2.8	5.6	22.2	0	0	16.7	30.6	8.3	0	5.6	0
Virginia	100.0	13.8	2.0	.7	1.6	12.8	3.6	.7	16.9	11.7	8.7	7.2	11.7	8.7

Table 11d.—Percent Distribution of First Additions to Registers by Affection, According to MRA and Each MRA State, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3	4.8
Connecticut	100.0	5.8	4.0	.4	2.2	4.9	1.3	.9	17.4	25.4	6.7	9.4	10.3	11.2
Georgia	100.0	18.4	2.5	0	2.2	15.1	3.8	1.1	9.0	12.9	7.9	8.2	9.9	9.0
Kansas	100.0	8.9	.9	.6	.9	18.6	3.8	1.8	18.9	12.4	6.2	16.3	8.0	2.7
Louisiana	100.0	15.6	1.5	2.1	2.3	15.6	4.8	1.7	12.3	12.5	7.5	6.9	13.3	4.2
Massachusetts	100.0	9.5	1.4	1.0	2.0	6.7	1.3	.8	26.4	17.1	5.0	16.1	7.8	5.0
New Hampshire	100.0	9.4	5.9	2.4	3.5	10.6	2.4	2.4	18.8	12.9	4.7	11.8	14.1	1.2
New Jersey	100.0	11.4	2.4	.9	1.3	14.0	3.0	1.1	15.6	16.5	5.9	7.7	10.6	9.5
New Mexico	100.0	4.5	6.0	0	6.0	20.9	3.0	0	14.9	19.4	3.0	10.4	9.0	3.0
New York	100.0	11.0	3.9	.7	2.3	8.9	3.1	1.4	19.2	17.4	6.4	14.0	8.9	3.0
North Carolina	100.0	13.3	2.4	.8	2.5	21.4	1.9	.1	15.6	11.3	5.3	12.6	8.2	4.6
Oregon	100.0	5.5	3.0	.3	2.5	10.5	5.0	1.4	26.7	14.0	8.0	12.4	9.6	1.1
Rhode Island	100.0	7.5	.7	.7	2.7	6.1	1.4	1.4	25.9	26.5	4.1	12.2	8.8	2.0
South Dakota	100.0	10.7	0	1.3	0	8.0	2.7	0	24.0	24.0	1.3	10.7	10.7	6.7
Utah	100.0	3.7	2.8	0	.9	5.6	2.8	.9	37.4	18.7	5.6	10.3	3.7	7.5
Vermont	100.0	7.3	0	1.8	0	10.9	0	1.8	34.5	9.1	9.1	9.1	14.5	1.8
Virginia	100.0	10.2	3.0	.7	1.3	15.2	3.7	1.8	16.5	12.9	6.7	11.2	10.0	6.8

Table 12a.—Number of First Additions to Registers by Affection, Color, and Sex, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Male	3,969	454	117	31	72	443	138	52	713	589	332	367	456	205
Female	4,576	483	150	47	89	649	159	37	845	693	224	640	356	204
White	3,877	307	101	32	59	568	113	35	851	579	244	444	341	203
Male	1,796	143	39	9	23	236	57	21	371	287	150	169	191	100
Female	2,081	164	62	23	36	332	56	14	480	292	94	275	150	103
Other	1,170	264	34	14	40	176	54	4	68	145	89	104	121	57
Male	525	130	17	9	18	64	24	1	38	43	53	33	63	32
Female	645	134	17	5	22	112	30	3	30	102	36	71	58	25
Unknown	3,498	366	132	32	62	348	130	50	639	558	223	459	350	149
Male	1,648	181	61	13	31	143	57	30	304	259	129	165	202	73
Female	1,850	185	71	19	31	205	73	20	335	299	94	294	148	76

Table 12b.—Number of First Additions to Registers by Affection, Color, and Sex, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Male	3,794	487	120	30	85	418	118	47	695	564	276	353	425	176
Female	4,559	421	111	38	88	565	123	50	908	762	237	684	349	223
White	3,643	269	77	23	59	490	107	35	793	590	211	424	358	207
Male	1,631	135	48	11	29	211	56	14	310	245	123	154	199	96
Female	2,012	134	29	12	30	279	51	21	483	345	88	270	159	111
Other	1,160	263	30	17	33	168	34	10	78	156	90	130	100	51
Male	531	154	16	10	14	71	11	6	43	48	44	40	56	18
Female	629	109	14	7	19	97	23	4	35	108	46	90	44	33
Unknown	3,550	376	124	28	81	325	100	52	732	580	212	483	316	141
Male	1,632	198	56	9	42	136	51	27	342	271	109	159	170	62
Female	1,918	178	68	19	39	189	49	25	390	309	103	324	146	79

Table 12c.—Percent Distribution of First Additions to Registers by Affection, According to Color and Sex, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5	11.8	9.5	4.8
Male	100.0	11.4	2.9	.8	1.8	11.2	3.5	1.3	18.0	14.8	8.4	9.2	11.5	5.2
Female	100.0	10.6	3.3	1.0	1.9	14.2	3.5	.8	18.5	15.1	4.9	14.0	7.8	4.5
White	100.0	7.9	2.6	.8	1.5	14.7	2.9	.9	21.9	14.9	6.3	11.5	8.8	5.2
Male	100.0	8.0	2.2	.5	1.3	13.1	3.2	1.2	20.7	16.0	8.4	9.4	10.6	5.6
Female	100.0	7.9	3.0	1.1	1.7	16.0	2.7	.7	23.1	14.0	4.5	13.2	7.2	4.9
Other	100.0	22.6	2.9	1.2	3.4	15.0	4.6	.3	5.8	12.4	7.6	8.9	10.3	4.9
Male	100.0	24.8	3.2	1.7	3.4	12.2	4.6	.2	7.2	8.2	10.1	6.3	12.0	6.1
Female	100.0	20.8	2.6	.8	3.4	17.4	4.7	.5	4.7	15.8	5.6	11.0	9.0	3.9
Unknown	100.0	10.5	3.8	.9	1.8	9.9	3.7	1.4	18.3	16.0	6.4	13.1	10.0	4.3
Male	100.0	11.0	3.7	.8	1.9	8.7	3.5	1.8	18.4	15.7	7.8	10.0	12.3	4.4
Female	100.0	10.0	3.8	1.0	1.7	11.1	3.9	1.1	18.1	16.2	5.1	15.9	8.0	4.1

Table 12d.—Percent Distribution of First Additions to Registers by Affection, According to Color and Sex, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3	4.8
Male	100.0	12.8	3.2	.8	2.2	11.0	3.1	1.2	18.3	14.9	7.3	9.3	11.2	4.6
Female	100.0	9.2	2.4	.8	1.9	12.4	2.7	1.1	19.9	16.7	5.2	15.0	7.7	4.9
White	100.0	7.4	2.1	.6	1.6	13.5	2.9	1.0	21.8	16.2	5.8	11.6	9.8	5.7
Male	100.0	8.3	2.9	.7	1.8	12.9	3.4	.9	19.0	15.0	7.5	9.4	12.2	5.9
Female	100.0	6.7	1.4	.6	1.5	13.9	2.5	1.0	24.	17.1	4.4	13.4	7.9	5.5
Other	100.0	22.7	2.6	1.5	2.8	14.5	2.9	.9	6.7	13.1	7.8	11.2	8.6	4.4
Male	100.0	29.0	3.0	1.9	2.6	13.4	2.1	1.1	8.1	9.0	8.3	7.5	10.5	3.4
Female	100.0	17.3	2.2	1.1	3.0	15.4	3.7	.6	5.6	17.2	7.3	14.3	7.0	5.2
Unknown	100.0	10.6	3.5	.8	2.3	9.2	2.8	1.5	20.6	1 .3	6.0	13.6	8.9	4.0
Male	100.0	12.1	3.4	.5	2.6	8.3	3.1	1.7	21.0	16.6	6.7	9.7	10.	3.
Female	100.0	9.3	.5	1.0	2.0	9.9	2.6	1.3	20.3	16.1	5.4	16.9	7.6	4.1

Table 13a.—Number of First Additions to Registers by Affection and Age, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Under 5	202	0	3	1	2	33	8	14	3	13	34	0	75	16
5–19	835	1	67	5	11	117	29	49	90	35	115	9	265	42
20–44	1,126	41	40	12	36	87	84	22	165	184	152	26	210	67
45–64	2,385	330	90	35	58	331	95	0	279	529	155	224	157	102
65–74	1,256	199	35	7	22	126	38	0	238	280	36	193	34	48
75–84	1,611	235	19	10	19	210	23	0	486	161	34	312	27	75
85 and over	720	77	4	4	6	152	3	0	213	28	9	184	7	33
Unknown	410	54	9	4	7	36	17	4	84	52	21	59	37	26

Table 13b.—Number of First Additions to Registers by Affection and Age, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Under 5	192	0	4	1	3	30	0	23	5	11	20	0	84	11
5–19	791	5	57	5	9	106	22	53	78	54	99	7	259	37
20–44	1,061	34	46	16	41	59	72	17	151	190	162	33	184	56
45–64	2,382	317	78	27	67	318	93	1	289	555	142	226	151	118
65–74	1,266	200	23	10	13	140	29	0	223	264	38	221	47	58
75–84	1,551	229	17	6	27	167	14	0	509	162	23	307	23	67
85 and over	733	72	1	2	6	135	6	0	238	43	10	188	7	25
Unknown	377	51	5	1	7	28	5	3	110	47	19	55	19	27

Table 13c.—Percent Distribution of First Additions to Registers by Affection, According to Age, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5	11.8	9.5	4.8
Under 5	100.0	0	1.5	.5	1.0	16.3	4.0	6.9	1.5	6.4	16.8	0	37.1	7.9
5–19	100.0	.1	8.0	.6	1.3	14.0	3.5	5.9	10.8	4.2	13.8	1.1	31.7	5.0
20–44	100.0	3.6	3.6	1.1	3.2	7.7	7.5	2.0	14.7	16.3	13.5	2.3	18.7	6.0
45–64	100.0	13.8	3.8	1.5	2.4	13.9	4.0	0	11.7	22.2	6.5	9.4	6.6	4.3
65–74	100.0	15.8	2.8	.6	1.8	10.0	3.0	0	18.9	22.3	2.9	15.4	2.7	3.8
75–84	100.0	14.6	1.2	.6	1.2	13.0	1.4	0	30.2	10.0	2.1	19.4	1.7	4.7
85 and over	100.0	10.7	.6	.6	.8	21.1	.4	0	29.6	3.9	1.2	25.6	1.0	4.6
Unknown	100.0	13.2	2.2	1.0	1.7	8.8	4.1	1.0	20.5	12.7	5.1	14.4	9.0	6.3

Table 13d.—Percent Distribution of First Additions to Registers by Affection, According to Age, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3	4.8
Under 5	100.0	0	2.1	.5	1.6	15.6	0	12.0	2.6	5.7	10.4	0	43.7	5.7
5–19	100.0	.6	7.2	.6	1.1	13.4	2.8	6.7	9.9	6.8	12.5	.9	32.7	4.7
20–44	100.0	3.2	4.3	1.5	3.9	5.6	6.8	1.6	14.2	17.9	15.3	3.1	17.3	5.3
45–64	100.0	13.3	3.3	1.1	2.8	13.4	3.9	0.0	12.1	23.3	6.0	9.5	6.3	5.0
65–74	100.0	15.8	1.8	.8	1.0	11.1	2.3	0	17.6	20.9	3.0	17.5	3.7	4.6
75–84	100.0	14.8	1.1	.4	1.7	10.8	.9	0	32.8	10.4	1.5	19.8	1.5	4.3
85 and over	100.0	9.8	.1	.3	.8	18.4	.8	0	32.5	5.9	1.4	25.6	1.0	3.4
Unknown	100.0	13.5	1.3	.3	1.9	7.4	1.3	.8	29.2	12.5	5.0	14.6	5.0	7.2

Table 14a.—Number of First Additions to Registers by Visual Acuity and Affection, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Absolute blindness	549	77	2	0	12	40	22	30	23	63	63	32	131	54
Light perception	769	87	5	8	17	131	25	21	47	152	60	92	79	45
Light projection	84	5	1	1	6	12	2	0	8	16	6	15	8	4
Less than 5/200	1,430	132	21	12	28	207	44	6	242	295	95	203	85	60
5/200 to less than 10/200	1,089	62	43	7	21	130	40	5	257	201	86	162	48	27
10/200 to less than 20/200	1,264	68	43	17	18	164	56	8	301	212	70	163	90	54
20/200	2,277	172	122	27	43	329	81	10	472	274	112	284	250	101
Restricted field	794	322	20	4	9	18	16	4	183	42	40	39	63	34
Unknown	289	12	10	2	7	61	11	5	25	27	24	17	58	30

Table 14b.—Number of First Additions to Registers by Visual Acuity and Affection, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiole affections	Other	Unknown
MRA	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Absolute blindness	453	65	0	1	11	29	8	26	12	61	63	25	101	51
Light perception	693	83	5	8	31	124	17	17	47	116	50	94	66	35
Light projection	86	10	2	2	3	15	3	1	8	14	6	13	5	4
Less than 5/200	1,260	118	19	12	28	161	36	6	200	322	75	174	71	38
5/200 to less than 10/200	1,094	73	36	11	13	114	40	11	240	205	65	186	69	31
10/200 to less than 20/200	1,401	83	43	12	29	153	38	9	406	229	68	168	95	68
20/200	2,361	144	98	19	48	308	84	19	518	314	123	322	252	112
Restricted field	758	320	17	1	5	30	13	4	148	44	52	46	47	31
Unknown	247	12	11	2	5	49	2	4	24	21	11	9	68	29

Table 14c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Affection, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Affection													
	Total	Glaucoma, not congenita	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	6.4	8.2	.7	0	7.5	3.7	7.4	33.7	1.5	4.9	11.3	3.2	16.1	13.2
Light perception	9.0	9.3	1.9	10.3	10.6	12.0	8.4	23.6	3.0	11.9	10.8	9.1	9.7	11.0
Light projection	1.0	.5	.4	1.3	3.7	1.1	.7	0	.5	1.2	1.1	1.5	1.0	1.0
Less than 5/200	16.7	14.1	7.9	15.4	17.4	19.0	14.8	6.7	15.5	23.0	17.1	20.2	10.5	14.7
5/200 to less than 10/200	12.7	6.6	16.1	9.0	13.0	11.9	13.5	5.6	16.5	15.7	15.5	16.1	5.9	6.6
10/200 to less than 20/200	14.8	7.3	16.1	21.8	11.2	15.0	18.9	9.0	19.3	16.5	12.6	16.2	11.1	13.2
20/200	26.6	18.4	45.7	34.6	26.7	30.1	27.3	11.2	30.3	21.4	20.1	28.2	30.8	24.7
Restricted field	9.3	34.4	7.5	5.1	5.6	1.6	5.4	4.5	11.7	3.3	7.2	3.9	7.8	8.3
Unknown	3.4	1.3	3.7	2.6	4.3	5.6	3.7	5.6	1.6	2.1	4.3	1.7	7.1	7.3

Table 14d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Affection, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	5.4	7.2	0	1.5	6.4	3.0	3.3	26.8	.7	4.6	12.3	2.4	13.0	12.8
Light perception	8.3	9.1	2.2	11.8	17.9	12.6	7.1	17.5	2.9	8.7	9.7	9.1	8.5	8.8
Light projection	1.0	1.1	.9	2.9	1.7	1.5	1.2	1.0	.5	1.1	1.2	1.3	.6	1.0
Less than 5/200	15.1	13.0	8.2	17.6	16.2	16.4	14.9	6.2	12.5	24.3	14.6	16.8	9.2	9.5
5/200 to less than 10/200	13.1	8.0	15.6	16.2	7.5	11.6	16.6	11.3	15.0	15.5	12.7	17.9	8.9	7.8
10/200 to less than 20/200	16.8	9.1	18.6	17.6	16.8	15.6	15.8	9.3	25.3	17.3	13.3	16.2	12.3	17.0
20/200	28.3	15.9	42.4	27.9	27.7	31.3	34.9	19.6	32.3	23.7	24.0	31.1	32.6	28.1
Restricted field	9.1	35.2	7.4	1.5	2.9	3.1	5.4	4.1	9.2	3.3	10.1	4.4	6.1	7.8
Unknown	3.0	1.3	4.8	2.9	2.9	5.0	.8	4.1	1.5	1.6	2.1	.9	8.8	7.3

Table 15a.—Number of First Additions to Registers by Etiology, MRA and Each MRA State, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036	1,444
Connecticut	349	15	8	3	54	69	14	2	64	23	36	61
Georgia	449	12	25	4	42	64	3	4	82	19	77	117
Kansas	345	6	7	4	28	127	8	5	45	32	37	46
Louisiana	428	20	21	4	34	86	4	6	86	27	71	69
Massachusetts	1,040	18	31	10	151	305	31	24	126	91	122	131
New Hampshire	93	2	2	3	13	18	5	1	22	6	12	9
New Jersey	834	25	17	15	94	185	19	15	142	53	97	172
New Mexico	47	2	2	0	1	15	0	6	6	3	6	6
New York	2,765	61	84	25	412	623	84	48	419	209	307	493
North Carolina	913	6	16	5	87	331	23	10	100	70	119	146
Oregon	360	15	12	3	34	129	8	7	60	23	37	32
Rhode Island	123	4	4	4	24	39	3	0	21	6	7	11
South Dakota	50	0	2	1	8	11	1	1	6	3	10	7
Utah	104	2	4	1	7	37	1	2	11	6	5	28
Vermont	36	1	0	1	9	12	0	3	5	0	0	5
Virginia	609	19	25	5	62	108	12	10	138	26	93	111

Table 15b.—Number of First Additions to Registers by Etiology, MRA and Each MRA State, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
Connecticut	224	3	9	4	47	44	9	5	33	9	18	43
Georgia	365	8	28	3	32	57	8	4	49	21	71	84
Kansas	338	8	11	4	36	116	9	3	49	30	31	41
Louisiana	481	27	27	11	44	85	7	13	90	22	83	72
Massachusetts	1,151	22	18	12	133	214	33	18	140	174	133	254
New Hampshire	85	4	1	1	11	21	3	1	17	5	8	13
New Jersey	744	26	25	11	101	167	15	10	117	33	98	141
New Mexico	67	0	7	1	6	22	2	0	9	3	4	13
New York	2,719	53	87	31	411	663	74	35	389	193	334	449
North Carolina	833	12	24	1	67	300	19	11	79	63	117	140
Oregon	363	8	20	5	39	110	11	5	65	29	23	48
Rhode Island	147	5	4	1	33	42	6	1	19	9	13	14
South Dakota	75	1	3	1	13	20	3	1	10	6	8	9
Utah	107	1	5	0	17	43	2	2	10	3	6	18
Vermont	55	1	2	0	4	19	3	2	12	4	4	4
Virginia	599	12	26	6	65	132	11	7	118	36	77	109

Table 15c.—Percent Distribution of First Additions to Registers by Etiology, According to MRA and Each MRA State, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0	12.1	16.9
Connecticut	100.0	4.3	2.3	.9	15.5	19.8	4.0	.6	18.3	6.6	10.3	17.5
Georgia	100.0	2.7	5.6	.9	9.4	14.3	.7	.9	18.3	4.2	17.1	26.1
Kansas	100.0	1.7	2.0	1.2	8.1	36.8	2.3	1.4	13.0	9.3	10.7	13.3
Louisiana	100.0	4.7	4.9	.9	7.9	20.1	.9	1.4	20.1	6.3	16.6	16.1
Massachusetts	100.0	1.7	3.0	1.0	14.5	29.3	3.0	2.3	12.1	8.7	11.7	12.6
New Hampshire	100.0	2.2	2.2	3.2	14.0	19.4	5.4	1.1	23.7	6.5	12.9	9.7
New Jersey	100.0	3.0	2.0	1.8	11.3	22.2	2.3	1.8	17.0	6.4	11.6	20.6
New Mexico	100.0	4.3	4.3	0	2.1	31.9	0	12.8	12.8	6.4	12.8	12.8
New York	100.0	2.2	3.0	.9	14.9	22.5	3.0	1.7	15.2	7.6	11.1	17.8
North Carolina	100.0	.7	1.8	.5	9.5	36.3	2.5	1.1	11.0	7.7	13.0	16.0
Oregon	100.0	4.2	3.3	.8	9.4	35.8	2.2	1.9	16.7	6.4	10.3	8.9
Rhode Island	100.0	3.3	3.3	3.3	19.5	31.7	2.4	0	17.1	4.9	5.7	8.9
South Dakota	100.0	0	4.0	2.0	16.0	22.0	2.0	2.0	12.0	6.0	20.0	14.0
Utah	100.0	1.9	3.8	1.0	6.7	35.6	1.0	1.9	10.6	5.8	4.8	26.9
Vermont	100.0	2.8	0	2.8	25.0	33.3	0	8.3	13.9	0	0	13.9
Virginia	100.0	3.1	4.1	.8	10.2	17.7	2.0	1.6	22.7	4.3	15.3	18.2

Table 15d.—Percent Distribution of First Additions to Registers by Etiology, According to MRA and Each MRA State, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Connecticut	100.0	1.3	4.0	1.8	21.0	19.6	4.0	2.2	14.7	4.0	8.0	19.2
Georgia	100.0	2.2	7.7	.8	8.8	15.6	2.2	1.1	13.4	5.8	19.5	23.0
Kansas	100.0	2.4	3.3	1.2	10.7	34.3	2.7	.9	14.5	8.9	9.2	12.1
Louisiana	100.0	5.6	5.6	2.3	9.1	17.7	1.5	2.7	18.7	4.6	17.3	15.0
Massachusetts	100.0	1.9	1.6	1.0	11.6	18.6	2.9	1.6	12.2	15.1	11.6	22.1
New Hampshire	100.0	4.7	1.2	1.2	12.9	24.7	3.5	1.2	20.0	5.9	9.4	15.3
New Jersey	100.0	3.5	3.4	1.5	13.6	22.4	2.0	1.3	15.7	4.4	13.2	19.0
New Mexico	100.0	0	10.4	1.5	9.0	32.8	3.0	0	13.4	4.5	6.0	19.4
New York	100.0	1.9	3.2	1.1	15.1	24.4	2.7	1.3	14.3	7.1	12.3	16.5
North Carolina	100.0	1.4	2.9	.1	8.0	36.0	2.3	1.3	9.5	7.6	14.0	16.8
Oregon	100.0	2.2	5.5	1.4	10.7	30.3	3.0	1.4	17.9	8.0	6.3	13.2
Rhode Island	100.0	3.4	2.7	.7	22.4	28.6	4.1	.7	12.9	6.1	8.8	9.5
South Dakota	100.0	1.3	4.0	1.3	17.3	26.7	4.0	1.3	13.3	8.0	10.7	12.0
Utah	100.0	.9	4.7	0	15.9	40.2	1.9	1.9	9.3	2.8	5.6	16.8
Vermont	100.0	1.8	3.6	0	7.3	34.5	5.5	3.6	21.8	7.3	7.3	7.3
Virginia	100.0	2.0	4.3	1.0	10.9	22.0	1.8	1.2	19.7	6.0	12.9	18.2

Table 16a.—Number of First Additions to Registers by Etiology, Color, and Sex, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036	1,444
Male	3,969	108	186	42	410	833	118	75	727	235	502	733
Female	4,576	100	74	46	650	1,326	98	69	606	362	534	711
White	3,877	86	109	51	461	1,158	96	66	644	263	358	585
Male	1,796	39	81	25	201	439	50	38	344	109	170	300
Female	2,081	47	28	26	260	719	46	28	300	154	188	285
Other	1,170	45	51	3	131	176	16	20	158	68	278	224
Male	525	23	39	1	32	64	6	6	83	27	135	100
Female	645	22	12	2	99	112	10	14	75	41	143	115
Unknown	3,498	77	100	34	468	825	104	58	531	266	400	635
Male	1,648	46	66	16	177	330	62	31	300	99	197	324
Female	1,850	31	34	18	291	495	42	27	231	167	203	311

Table 16b.—Number of First Additions to Registers by Etiology, Color, and Sex, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
Male	3,794	99	223	53	397	770	94	50	634	247	547	680
Female	4,559	92	74	39	662	1,285	121	68	572	393	481	772
White	3,643	78	121	41	449	1,036	102	55	560	272	327	602
Male	1,631	44	90	30	172	364	44	23	298	110	159	297
Female	2,012	34	31	11	277	672	58	32	262	162	168	305
Other	1,160	38	65	12	130	164	20	18	137	94	277	205
Male	531	21	51	5	23	64	9	5	68	33	163	89
Female	629	17	14	7	107	100	11	13	69	61	114	116
Unknown	3,550	75	111	39	480	855	93	45	509	274	424	645
Male	1,632	34	82	18	202	342	41	22	268	104	225	294
Female	1,918	41	29	21	278	513	52	23	241	170	199	351

Table 16c.—Percent Distribution of First Additions to Registers by Etiology, According to Color and Sex, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0	12.1	16.9
Male	100.0	2.7	4.7	1.1	10.3	21.0	3.0	1.9	18.3	5.9	12.6	18.5
Female	100.0	2.2	1.6	1.0	14.2	29.0	2.1	1.5	13.2	7.9	11.7	15.5
White	100.0	2.2	2.3	1.3	11.9	29.9	2.5	1.7	16.6	6.8	9.2	15.1
Male	100.0	2.2	4.5	1.4	11.2	24.4	2.8	2.1	19.2	6.1	9.5	16.7
Female	100.0	2.3	1.3	1.2	12.5	34.6	2.2	1.3	14.4	7.4	9.0	13.7
Other	100.0	3.8	4.4	.3	11.2	15.0	1.4	1.7	13.5	5.8	23.8	19.1
Male	100.0	4.4	7.4	.2	6.1	12.2	1.1	1.1	15.8	5.1	25.7	20.8
Female	100.0	3.4	1.9	.3	15.3	17.4	1.6	2.2	11.6	6.4	22.2	17.8
Unknown	100.0	2.2	2.9	1.0	13.4	23.6	3.0	1.7	15.2	7.6	11.4	18.2
Male	100.0	2.8	4.0	1.0	10.7	20.0	3.8	1.9	18.2	6.0	12.0	19.7
Female	100.0	1.7	1.8	1.0	15.7	26.8	2.3	1.5	12.5	9.0	11.0	16.8

Table 16d.—Percent Distribution of First Additions to Registers by Etiology, According to Color and Sex, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Male	100.0	2.6	5.9	1.4	10.5	20.3	2.5	1.3	16.7	6.5	14.4	17.9
Female	100.0	2.0	1.6	.9	14.5	28.2	2.7	1.5	12.5	8.6	10.6	16.9
White	100.0	2.1	3.3	1.1	12.3	28.4	2.8	1.5	15.4	7.5	9.0	16.5
Male	100.0	2.7	5.5	1.8	10.5	22.3	2.7	1.4	18.3	6.7	9.7	18.2
Female	100.0	1.7	1.5	.5	13.8	33.4	2.9	1.6	13.0	8.1	8.3	15.2
Other	100.0	3.3	5.6	1.0	11.2	14.1	1.7	1.6	11.8	8.1	23.9	17.7
Male	100.0	4.0	9.6	.9	4.3	12.1	1.7	.9	12.8	6.2	30.7	16.8
Female	100.0	2.7	2.2	1.1	17.0	15.9	1.7	2.1	11.0	9.7	18.1	18.4
Unknown	100.0	2.1	3.1	1.1	13.5	24.1	2.6	1.3	14.3	7.7	11.9	18.2
Male	100.0	2.1	5.0	1.1	12.4	21.0	2.5	1.3	16.4	6.4	13.8	18.0
Female	100.0	2.1	1.5	1.1	14.5	26.7	2.7	1.2	12.6	8.9	10.4	18.3

Table 17a.—Number of First Additions to Registers by Etiology and Age, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036	1,444
Under 5	202	32	13	13	0	0	0	9	104	0	1	30
5–19	835	49	31	22	5	0	1	24	505	5	25	168
20–44	1,126	49	100	17	147	7	15	53	352	9	81	296
45–64	2,385	53	85	27	485	427	61	41	260	146	352	448
65–74	1,256	8	10	4	263	361	44	8	44	116	205	193
75–84	1,611	10	5	2	108	798	61	5	21	188	236	177
85 and over	720	3	2	0	13	451	17	0	2	95	79	58
Unknown	410	4	14	3	39	115	17	4	45	38	57	74

Table 17b.—Number of First Additions to Registers by Etiology and Age, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
Under 5	192	23	17	9	0	0	0	7	109	0	0	27
5–19	791	56	40	31	4	0	0	12	454	6	27	161
20–44	1,061	39	112	22	140	8	7	58	290	22	85	278
45–64	2,382	50	92	22	516	425	72	33	245	140	341	446
65–74	1,266	13	14	5	248	351	49	2	42	147	207	188
75–84	1,551	6	8	1	101	727	64	3	25	185	237	194
85 and over	733	2	3	0	15	445	20	0	3	98	75	72
Unknown	377	2	11	2	35	99	3	3	38	42	56	86

Table 17c.—Percent Distribution of First Additions to Registers by Etiology, According to Age, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0	12.1	16.9
Under 5	100.0	15.8	6.4	6.4	0	0	0	4.5	51.5	0	.5	14.9
5–19	100.0	5.9	3.7	2.6	.6	0	.1	2.9	60.5	.6	3.0	20.1
20–44	100.0	4.4	8.9	1.5	13.1	.6	1.3	4.7	31.3	.8	7.2	26.3
45–64	100.0	2.2	3.6	1.1	20.3	17.9	2.6	1.7	10.9	6.1	14.8	18.8
65–74	100.0	.6	.8	.3	20.9	28.7	3.5	.6	3.5	9.2	16.3	15.4
75–84	100.0	.6	.3	.1	6.7	49.5	3.8	.3	1.3	11.7	14.6	11.0
85 and over	100.0	.4	.3	0	1.8	62.6	2.4	0	.3	13.2	11.0	8.1
Unknown	100.0	1.0	3.4	.7	9.5	28.0	4.1	1.0	11.0	9.3	13.9	18.0

Table 17d—.Percent Distribution of First Additions to Registers by Etiology, According to Age, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Under 5	100.0	12.0	8.9	4.7	0	0	0	3.6	56.8	0	0	14.1
5–19	100.0	7.1	5.1	3.9	.5	0	0	1.5	57.4	.8	3.4	20.4
20–44	100.0	3.7	10.6	2.1	13.2	.8	.7	5.5	27.3	2.1	8.0	26.2
45–64	100.0	2.1	3.9	.9	21.7	17.8	3.0	1.4	10.3	5.9	14.3	18.7
65–74	100.0	1.0	1.1	.4	19.6	27.7	3.9	.2	3.3	11.6	16.4	14.8
75–84	100.0	.4	.5	.1	6.5	46.9	4.1	.2	1.6	11.9	15.3	12.5
85 and over	100.0	.3	.4	0	2.0	60.7	2.7	0	.4	13.4	10.2	9.8
Unknown	100.0	.5	2.9	.5	9.3	26.3	.8	.8	10.1	11.1	14.9	22.8

Table 18a.—Number of First Additions to Registers by Visual Acuity and Etiology, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036	1,444
Absolute blindness	549	8	64	21	32	21	20	13	108	26	79	157
Light perception	769	23	44	9	119	134	23	14	94	59	90	160
Light projection	84	3	7	0	14	16	4	1	12	8	5	14
Less than 5/200	1,430	31	41	10	255	431	43	21	122	120	140	216
5/200 to less than 10/200	1,089	22	26	8	179	364	25	19	117	81	80	168
10/200 to less than 20/200	1,264	37	26	8	170	419	28	20	167	97	91	201
20/200	2,277	49	31	9	247	687	36	32	445	163	210	368
Restricted field	794	14	14	18	24	46	31	11	185	32	327	92
Unknown	289	21	7	5	20	41	6	13	83	11	14	68

Table 18b.—Number of First Additions to Registers by Visual Acuity and Etiology, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
bsolute blindness	453	16	65	21	33	14	24	6	80	20	66	108
ight perception	693	23	54	6	100	122	16	8	85	61	84	134
ight projection	86	2	5	0	16	17	0	3	10	5	11	17
ess than 5/200	1,260	28	43	17	269	335	45	15	77	110	131	190
/200 to less than 10/200	1,094	23	29	12	183	321	28	15	113	103	90	177
0/200 to less than 20/200	1,401	25	32	8	179	481	31	19	181	104	110	231
0/200	2,361	43	40	11	242	684	40	33	417	197	194	460
estricted field	758	6	19	13	28	46	26	15	150	35	327	93
nknown	247	25	10	4	9	35	5	4	93	5	15	42

Table 18c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Etiology, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determin
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness	6.4	3.8	24.6	23.9	3.0	1.0	9.3	9.0	8.1	4.4	7.6	10.9
Light perception	9.0	11.1	16.9	10.2	11.2	6.2	10.6	9.7	7.1	9.9	8.7	11.1
Light projection	1.0	1.4	2.7	0	1.3	.7	1.9	.7	.9	1.3	.5	1.0
Less than 5/200	16.7	14.9	15.8	11.4	24.1	20.0	19.9	14.6	9.2	20.1	13.5	15.0
5/200 to less than 10/200	12.7	10.6	10.0	9.1	16.9	16.9	11.6	13.2	8.8	13.6	7.7	11.6
10/200 to less than 20/200	14.8	17.8	10.0	9.1	16.0	19.4	13.0	13.9	12.5	16.2	8.8	13.9
20/200	26.6	23.6	11.9	10.2	23.3	31.8	16.7	22.2	33.4	27.3	20.3	25.5
Restricted field	9.3	6.7	5.4	20.5	2.3	2.1	14.4	7.6	13.9	5.4	31.6	6.4
Unknown	3.4	10.1	2.7	5.7	1.9	1.9	2.8	9.0	6.2	1.8	1.4	4.7

Table 18d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Etiology, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
bsolute blindness	5.4	8.4	21.9	22.8	3.1	.7	11.2	5.1	6.6	3.1	6.4	7.4
ight perception	8.3	12.0	18.2	6.5	9.4	5.9	7.4	6.8	7.0	9.5	8.2	9.2
ight projection	1.0	1.0	1.7	0	1.5	.8	0	2.5	.8	.8	1.1	1.2
ess than 5/200	15.1	14.7	14.5	18.5	25.4	16.3	20.9	12.7	6.4	17.2	12.7	13.1
/200 to less than 10/200	13.1	12.0	9.8	13.0	17.3	15.6	13.0	12.7	9.4	16.1	8.8	12.2
0/200 to less than 20/200	16.8	13.1	10.8	8.7	16.9	23.4	14.4	16.1	15.0	16.2	10.7	15.9
0/200	28.3	22.5	13.5	12.0	22.9	33.3	18.6	28.0	34.6	30.8	18.9	31.7
estricted field	9.1	3.1	6.4	14.1	2.6	2.2	12.1	12.7	12.4	5.5	31.8	6.4
nknown	3.0	13.1	3.4	4.3	.8	1.7	2.3	3.4	7.7	.8	1.5	2.9

Table 19a.—Number of First Additions to Registers by Affection and Etiology, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not report or determi
MRA total	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036	1,44
Glaucoma, not congenital	937	0	0	0	0	0	0	0	0	0	937	
Myopia	267	0	0	0	0	0	0	0	82	0	0	18
Keratitis	78	53	1	0	0	0	0	3	3	0	1	1
Other affection of cornea or sclera	161	0	29	0	0	19	0	9	21	0	29	5
Cataract	1,092	38	7	0	0	[1] 786	0	1	190	0	0	7
Uveitis	297	60	7	0	0	0	0	17	14	0	4	19
Retrolental fibroplasia	89	0	18	0	0	0	0	0	0	0	1	7
Retinal degeneration	1,558	0	12	0	0	1,065	0	0	392	0	54	3
Other retinal affection	1,282	3	11	15	908	56	100	7	34	0	9	13
Optic nerve atrophy	556	20	62	44	4	0	31	66	98	0	0	23
Multiple affections	1,007	3	0	0	131	231	0	1	0	597	0	4
Other	812	25	97	27	0	0	67	34	475	0	1	8
Unknown	409	6	16	2	17	2	18	6	24	0	0	31

[1] Includes 77 cases of senile-type cataract in diabetic persons.

Table 19b.—Number of First Additions to Registers by Affection and Etiology, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
laucoma, not congenital	908	0	0	0	0	0	0	0	0	0	908	0
yopia	231	0	0	0	0	0	0	0	73	0	0	158
eratitis	68	56	2	0	0	0	0	2	1	0	1	6
ther affection of cornea or sclera	173	0	35	1	0	21	0	6	19	0	40	51
ataract	983	45	11	0	0	[1] 713	0	1	141	0	0	72
veitis	241	34	9	0	0	0	0	8	14	0	8	168
etrolental fibroplasia	97	0	35	0	0	0	0	0	0	0	0	62
etinal degeneration	1,603	0	7	0	0	1,053	0	0	353	0	54	136
ther retinal affection	1,326	5	14	18	926	51	104	6	44	0	16	142
ptic nerve atrophy	513	18	77	55	3	0	34	65	69	0	0	192
ultiple affections	1,037	1	1	1	120	213	0	0	2	640	0	59
ther	774	28	96	16	0	0	61	25	465	0	1	82
nknown	399	4	10	1	10	4	16	5	25	0	0	324

[1] Includes 77 cases of senile-type cataract in diabetic persons.

Table 19c.—Percent of First Additions to Registers by Affection and Etiology, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not report or determi
MRA total	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0	12.1	16.9
Glaucoma, not congenital	11.0	0	0	0	0	0	0	0	0	0	11.0	0
Myopia	3.1	0	0	0	0	0	0	0	1.0	0	0	2.2
Keratitis	.9	.6	0.0	0	0	0	0	0	0.0	0	0	.2
Other affection of cornea or sclera	1.9	0	.3	0	0	.2	0	.1	.2	0	.3	.6
Cataract	12.8	.4	.1	0	0	9.2	0	0	2.2	0	0	.8
Uveitis	3.5	.7	.1	0	0	0	0	.2	.2	0	0.0	2.3
Retrolental fibroplasia	1.0	0	.2	0	0	0	0	0	0	0	0	.8
Retinal degeneration	18.2	0	.1	0	0	12.5	0	0	4.6	0	.6	.4
Other retinal affection	15.0	0.0	.1	.2	10.6	.7	1.2	.1	.4	0	.1	1.6
Optic nerve atrophy	6.5	.2	.7	.5	0	0	.4	.8	1.1	0	0	2.7
Multiple affections	11.8	0	0	0	1.5	2.7	0	0	0	7.0	0	.5
Other	9.5	.3	1.1	.3	0	0	.8	.4	5.6	0	0	1.0
Unknown	4.8	.1	.2	0	.2	0	.2	.1	.3	0	0	3.7

Table 19d.—Percent of First Additions to Registers by Affection and Etiology, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
laucoma, not congenital	10.9	0	0	0	0	0	0	0	0	0	10.9	0
yopia	2.8	0	0	0	0	0	0	0	.9	0	0	1.9
eratitis	.8	.7	0.0	0	0	0	0	0	0	0	0	.1
ther affection of cornea or sclera	2.1	0	.4	0.0	0	.3	0	.1	.2	0	.5	.6
ataract	11.8	.5	.1	0	0	8.5	0	0	1.7	0	0	.9
veitis	2.9	.4	.1	0	0	0	0	.1	.2	0	.1	2.0
etrolental fibroplasia	1.2	0	.4	0	0	0	0	0	0	0	0	.7
etinal degeneration	19.2	0	.1	0	0	12.6	0	0	4.2	0	.6	1.6
ther retinal affection	15.9	.1	.2	.2	11.1	.6	1.2	.1	.5	0	.2	1.7
ptic nerve atrophy	6.1	.2	.9	.7	0	0	.4	.8	.8	0	0	2.3
ultiple affections	12.4	0	0	0	1.4	2.5	0	0	0	7.7	0	.7
ther	9.3	.3	1.1	.2	0	0	.7	.3	5.6	0	0	1.0
nknown	4.8	0	.1	0	.1	0	.2	.1	.3	0	0	3.9

Table 20a.—Number of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported o determine
MRA total	1,007	3	0	0	131	231	0	1	0	597	0	44
Glaucoma and other [1]	401	0	0	0	0	0	0	0	0	401	0	0
Cataract and other [1]	735	0	0	0	131	230	0	1	0	356	0	17
Retinal affection and other with diabetic etiology [1]	166	0	0	0	131	0	0	0	0	35	0	0
Retinal affection and other without diabetic etiology [1]	417	0	0	0	0	216	0	0	0	190	0	11
Degenerative myopia and other	71	0	0	0	0	0	0	0	0	58	0	13
Other	16	3	0	0	0	0	0	0	0	8	0	5

[1] Excludes degenerative myopia and other.

Table 20b.—Number of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	1,037	1	1	1	120	213	0	0	2	640	0	59
ucoma and other [1]	401	0	0	0	0	0	0	0	0	401	0	0
taract and other [1]	733	0	1	0	120	212	0	0	0	372	0	28
tinal affection and other with diabetic tiology [1]	177	0	0	0	119	0	0	0	0	58	0	0
tinal affection and other without diabetic tiology [1]	417	0	0	1	0	199	0	0	2	200	0	15
generative myopia and other	64	0	0	0	0	0	0	0	0	49	0	15
her	24	1	0	0	0	0	0	0	0	14	0	9

[1] Excludes degenerative myopia and other.

Table 20c.—Percent of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1969

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology											
	Total	Infectious disease	Injury or poisening	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported determine
MRA total	11.8	0.0	0	0	1.5	2.7	0	0	0	7.0	0	.5
Glaucoma and other [1]	4.7	0	0	0	0	0	0	0	0	4.7	0	0
Cataract and other [1]	8.6	0	0	0	1.5	2.7	0	0	0	4.2	0	.2
Retinal affection and other with diabetic etiology [1]	1.9	0	0	0	1.5	0	0	0	0	.4	0	0
Retinal affection and other without diabetic etiology [1]	4.9	0	0	0	0	2.5	0	0	0	2.2	0	.1
Degenerative myopia and other	.8	0	0	0	0	0	0	0	0	.7	0	.2
Other	.2	0	0	0	0	0	0	0	0	.1	0	.1

[1] Excludes degenerative myopia and other.

Table 20d.—Percent of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1970

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total	12.4	0	0	0	1.4	2.5	0	0	0	7.7	0	.7
Glaucoma and other[1]	4.8	0	0	0	0	0	0	0	0	4.8	0	0
Cataract and other [1]	8.8	0	0	0	1.4	2.5	0	0	0	4.5	0	.3
Retinal affection and other with diabetic etiology [1]	2.1	0	0	0	1.4	0	0	0	0	.7	0	0
Retinal affection and other without diabetic etiology [1]	5.0	0	0	0	0	2.4	0	0	0	2.4	0	.2
Degenerative myopia and other	.8	0	0	0	0	0	0	0	0	.6	0	.2
Other	.3	0	0	0	0	0	0	0	0	.2	0	.1

[1] Excludes degenerative myopia and other.

Table 21a.—Number of Removals from Registers by Reason, MRA and Each MRA State, 1969

State	Reason for removal					
	Total	Death	Left State	Sight restored	Unable to locate	Other
MRA total	7,744	5,280	848	691	653	272
Connecticut	276	192	48	24	9	3
Georgia	204	142	20	17	20	5
Kansas	375	229	58	62	5	21
Louisiana	370	215	33	101	14	7
Massachusetts	1,290	1,053	139	60	11	27
New Hampshire	95	76	15	3	1	0
New Jersey	1,086	634	88	130	226	8
New Mexico	769	362	48	40	293	26
New York	1,179	892	99	68	12	108
North Carolina	1,127	821	116	99	48	43
Oregon	283	183	48	36	11	5
Rhode Island	90	70	9	9	2	0
South Dakota	49	27	4	6	0	12
Utah	108	87	18	3	0	0
Vermont	83	56	11	10	1	5
Virginia	360	241	94	23	0	2

Table 21b.—Number of Removals from Registers by Reason, MRA and Each MRA State, 1970

State	Reason for removal					
	Total	Death	Left State	Sight restored	Unable to locate	Other
MRA total	5,641	3,624	537	600	775	105
Connecticut	246	174	27	32	9	4
Georgia	154	83	10	24	33	4
Kansas	324	185	55	66	11	7
Louisiana	309	208	29	67	4	1
Massachusetts	859	722	75	46	2	14
New Hampshire	58	43	11	4	0	0
New Jersey	762	211	78	98	368	7
New Mexico	325	115	14	6	183	7
New York	1,007	840	77	74	0	16
North Carolina	515	387	25	79	20	4
Oregon	265	174	45	39	0	7
Rhode Island	82	55	7	4	0	16
South Dakota	60	51	2	3	0	4
Utah	139	125	13	1	0	0
Vermont	57	45	6	5	1	0
Virginia	479	206	63	52	144	14

Table 21c.—Percent Distribution of Removals from Registers by Reason, According to MRA and Each MRA State, 1969

State	Reason for removal					
	Total	Death	Left State	Sight restored	Unable to locate	Other
MRA total	100.0	68.2	11.0	8.9	8.4	3.5
Connecticut	100.0	69.6	17.4	8.7	3.3	1.1
Georgia	100.0	69.6	9.8	8.3	9.8	2.5
Kansas	100.0	61.1	15.5	16.5	1.3	5.6
Louisiana	100.0	58.1	8.9	27.3	3.8	1.9
Massachusetts	100.0	81.6	10.8	4.7	.9	2.1
New Hampshire	100.0	80.0	15.8	3.2	1.1	0
New Jersey	100.0	58.4	8.1	12.0	20.8	.7
New Mexico	100.0	47.1	6.2	5.2	38.1	3.4
New York	100.0	75.7	8.4	5.8	1.0	9.2
North Carolina	100.0	72.8	10.3	8.8	4.3	3.8
Oregon	100.0	64.7	17.0	12.7	3.9	1.8
Rhode Island	100.0	77.8	10.0	10.0	2.2	0
South Dakota	100.0	55.1	8.2	12.2	0	24.5
Utah	100.0	80.6	16.7	2.8	0	0
Vermont	100.0	67.5	13.3	12.0	1.2	6.0
Virginia	100.0	66.9	26.1	6.4	0	.6

Table 21d.—Percent Distribution of Removals from Registers by Reason, According to MRA and Each MRA State, 1970

State	Reason for removal					
	Total	Death	Left State	Sight restored	Unable to locate	Other
MRA total	100.0	64.2	9.5	10.6	13.7	1.9
Connecticut	100.0	70.7	11.0	13.0	3.7	1.6
Georgia	100.0	53.9	6.5	15.6	21.4	2.6
Kansas	100.0	57.1	17.0	20.4	3.4	2.2
Louisiana	100.0	67.3	9.4	21.7	1.3	.3
Massachusetts	100.0	84.1	8.7	5.4	.2	1.6
New Hampshire	100.0	74.1	19.0	6.9	0	0
New Jersey	100.0	27.7	10.2	12.9	48.3	.9
New Mexico	100.0	35.4	4.3	1.8	56.3	2.2
New York	100.0	83.4	7.6	7.3	0	1.6
North Carolina	100.0	75.1	4.9	15.3	3.9	.8
Oregon	100.0	65.7	17.0	14.7	0	2.6
Rhode Island	100.0	67.1	8.5	4.9	0	19.5
South Dakota	100.0	85.0	3.3	5.0	0	6.7
Utah	100.0	89.9	9.4	.7	0	0
Vermont	100.0	78.9	10.5	8.8	1.8	0
Virginia	100.0	43.0	13.2	10.9	30.1	2.9

Table 22a.—Number of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1969

Color and sex	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	95,553	561	9,212	15,276	25,403	15,814	15,357	10,869	3,061
Male	46,272	304	5,141	8,887	13,542	7,442	5,970	3,738	1,248
Female	49,281	257	4,071	6,389	11,861	8,372	9,387	7,131	1,813
White	46,442	261	4,580	7,864	11,973	7,140	7,752	5,926	946
Male	22,515	147	2,546	4,624	6,608	3,349	2,807	2,053	381
Female	23,927	114	2,034	3,240	5,365	3,791	4,945	3,873	565
Other	14,631	79	1,174	2,534	5,235	2,971	1,694	841	103
Male	7,204	45	653	1,384	2,642	1,391	26	313	50
Female	7,427	34	521	1,150	2,593	1,580	968	528	53
Unknown	34,480	221	3,458	4,878	8,195	5,703	5,911	4,102	2,012
Male	16,553	112	1,942	2,879	4,292	2,702	2,437	1,372	817
Female	17,927	109	1,516	1,999	3,903	3,001	3,474	2,730	1,195

Table 22b.—Number of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1970

Color and sex	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	99,347	518	9,153	16,346	25,785	16,518	16,399	11,533	3,095
Male	47,942	261	5,125	9,578	13,531	7,699	6,685	3,830	1,233
Female	51,405	257	4,028	6,768	12,254	8,819	9,714	7,703	1,862
White	47,262	240	4,464	8,454	11,907	7,266	8,087	5,937	907
Male	22,834	121	2,496	5,055	6,415	3,389	3,099	1,907	352
Female	24,428	119	1,968	3,399	5,492	3,877	4,988	4,030	555
Other	15,130	85	1,190	2,614	5,305	3,141	1,798	894	103
Male	7,413	44	662	1,443	2,638	1,457	791	333	45
Female	7,717	41	528	1,171	2,667	1,684	1,007	561	58
Unknown	36,955	193	3,499	5,278	8,573	6,111	6,514	4,702	2,085
Male	17,695	96	1,967	3,080	4,478	2,853	2,795	1,590	836
Female	19,260	97	1,532	2,198	4,095	3,258	3,719	3,112	1,249

Table 22c.—Rate of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1969

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	157.2	10.9	52.4	78.7	199.8	425.6	858.9	2,492.9
Male	157.2	11.6	57.6	94.3	224.5	468.9	862.7	2,459.2
Female	157.2	10.2	47.1	63.9	177.6	393.2	856.5	2,510.9
White	126.4	(1)	43.5	66.3	154.3	323.1	704.1	2,194.8
Male	125.5	(1)	47.4	78.9	177.7	355.1	668.3	2,231.5
Female	127.2	(1)	39.4	54.0	132.7	299.2	726.1	2,175.8
Other	246.9	(1)	55.1	141.6	554.6	1,096.3	1,583.2	2,548.5
Male	254.2	(1)	61.3	166.7	604.6	1,188.9	1,613.3	(2)
Female	240.1	(1)	49.0	119.8	511.4	1,032.7	1,536.5	(2)

[1] Not computed because color was unknown for more than 10 percent of persons of this age on MRA registers.
[2] Not computed because the estimated MRA population in 1969 was less than 25,000 for this age, color, and sex

Table 22d.—Rate of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1970

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	161.7	10.0	51.5	83.3	200.7	439.9	908.0	2,621.1
Male	161.2	9.9	56.8	100.6	221.9	480.0	956.4	2,503.3
Female	162.3	10.1	46.1	67.0	181.5	410.0	877.5	2,684.0
White	127.1	(1)	41.9	70.4	151.7	325.1	725.3	2,174.7
Male	125.8	(1)	45.9	85.2	170.5	355.6	727.5	2,050.5
Female	128.4	(1)	37.7	56.0	134.3	302.7	723.9	2,238.9
Other	252.7	(1)	55.3	144.5	556.1	1,150.6	1,649.5	2,709.1
Male	258.9	(1)	61.5	172.2	596.8	1,224.4	1,757.8	(2)
Female	246.9	(1)	49.1	120.6	519.9	1,093.5	1,598.4	(2)

[1] Not computed because color was unknown for more than 10 percent of persons of this age on MRA registers.
[2] Not computed because the estimated MRA population in 1970 was less than 25,000 for this age, color, and sex.

Table 23a.—Number of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1969

State	Color and sex											
	MRA total			White			Other			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	95,553	46,272	49,281	46,442	22,515	23,927	14,631	7,204	7,427	34,480	16,553	17,927
Connecticut	3,741	1,763	1,978	3,439	1,608	1,831	283	143	140	19	12	7
Georgia	5,809	2,940	2,869	2,689	1,417	1,272	2,669	1,274	1,395	451	249	202
Kansas	2,980	1,390	1,590	2,634	1,206	1,428	300	160	140	46	24	22
Louisiana	6,572	3,546	3,026	3,464	1,874	1,590	3,048	1,650	1,398	60	22	38
Massachusetts	10,660	4,795	5,865	9,335	4,234	5,101	347	163	184	978	398	580
New Hampshire	1,152	553	599	1,142	547	595	7	4	3	3	2	1
New Jersey	8,088	3,921	4,167	5,978	2,888	3,090	1,312	621	691	798	412	386
New Mexico	1,822	1,003	819	1,663	912	751	152	88	64	7	3	4
New York	31,457	15,139	16,318	(1)	(1)	(1)	(1)	(1)	(1)	31,457	15,139	16,318
North Carolina	10,532	4,934	5,598	6,170	2,970	3,200	4,351	1,957	2,394	11	7	4
Oregon	2,799	1,354	1,445	2,589	1,248	1,341	77	46	31	133	60	73
Rhode Island	1,175	557	618	1,103	530	573	44	15	29	28	12	16
South Dakota	923	473	450	740	368	372	171	100	71	12	5	7
Utah	1,353	612	741	1,327	593	734	26	19	7	0	0	0
Vermont	690	308	382	687	306	381	3	2	1	0	0	0
Virginia	5,800	2,984	2,816	3,482	1,814	1,668	1,841	962	879	477	208	269

[1] Not available.

Table 23b.—Number of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1970

State	Color and sex											
	MRA total			White			Other			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	99,347	47,942	51,405	47,262	22,834	24,428	15,130	7,413	7,717	36,955	17,695	19,260
Connecticut	3,766	1,768	1,998	3,440	1,604	1,836	308	153	155	18	11	7
Georgia	6,075	3,057	3,018	2,783	1,463	1,320	2,804	1,323	1,481	488	271	217
Kansas	3,056	1,431	1,625	2,692	1,242	1,450	300	160	140	64	29	35
Louisiana	6,811	3,666	3,145	3,571	1,911	1,660	3,163	1,724	1,439	77	31	46
Massachusetts	11,193	5,102	6,091	9,412	4,293	5,119	345	159	186	1,436	650	786
New Hampshire	1,199	576	623	1,190	570	620	6	4	2	3	2	1
New Jersey	8,201	3,965	4,236	6,037	2,918	3,119	1,328	632	696	836	415	421
New Mexico	1,576	850	726	1,423	767	656	137	77	60	16	6	10
New York	33,246	15,931	17,315	(1)	(1)	(1)	(1)	(1)	(1)	33,246	15,931	17,315
North Carolina	10,997	5,125	5,872	6,462	3,100	3,362	4,522	2,018	2,504	13	7	6
Oregon	2,953	1,433	1,520	2,635	1,269	1,366	86	51	35	232	113	119
Rhode Island	1,248	578	670	1,174	549	625	45	15	30	29	14	15
South Dakota	971	487	484	788	382	406	166	97	69	17	8	9
Utah	1,340	609	731	1,315	590	725	25	19	6	0	0	0
Vermont	701	313	388	697	310	387	4	3	1	0	0	0
Virginia	6,014	3,051	2,963	3,643	1,866	1,777	1,891	978	913	480	207	273

[1] Not available

Table 23c.—Rate of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1969

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	157.2	157.2	157.2	126.4	125.5	127.2	246.9	254.2	240.1
Connecticut	124.7	121.2	128.0	122.6	118.0	126.9	145.9	155.4	137.3
Georgia	127.6	132.9	122.7	80.0	85.7	74.4	224.7	227.9	221.8
Kansas	133.3	126.8	139.5	124.7	116.5	132.6	241.9	262.3	225.8
Louisiana	181.6	201.4	162.9	137.1	150.9	123.8	278.9	317.9	243.6
Massachusetts	188.7	177.5	198.9	171.6	162.8	179.7	165.2	163.0	167.3
New Hampshire	159.1	156.2	161.9	158.6	155.4	161.7	[1]	[1]	[1]
New Jersey	114.0	114.2	113.8	95.1	94.7	95.5	162.0	162.1	161.8
New Mexico	180.2	201.4	159.6	182.5	202.7	162.9	152.0	183.3	125.5
New York	173.7	175.0	172.6	[2]	[2]	[2]	[2]	[2]	[2]
North Carolina	209.3	200.3	218.0	159.7	156.2	163.2	372.5	348.2	394.4
Oregon	135.7	134.1	137.4	129.2	127.2	131.1	132.8	158.6	106.9
Rhode Island	126.1	121.9	130.1	122.4	120.2	124.6	141.9	[1]	[1]
South Dakota	138.2	142.9	133.5	116.9	117.2	116.6	488.6	[1]	[1]
Utah	129.2	118.4	139.8	130.1	117.9	142.0	96.3	[1]	[1]
Vermont	157.9	143.9	171.3	157.9	143.7	170.9	[1]	[1]	[1]
Virginia	125.7	130.9	120.7	93.3	98.0	88.6	209.2	224.2	194.9

[1] Not computed because the estimated State population in 1969 was less than 25,000 for this color and sex.
[2] Not computed because color was unknown for more than 10 percent of persons on the State register.

Table 23d.—Rate of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1970

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	161.7	161.2	162.3	127.1	125.8	128.4	252.7	258.9	246.9
onnecticut	123.9	119.9	127.7	121.0	116.1	125.6	156.3	162.8	150.5
eorgia	132.0	136.7	127.6	81.9	87.6	76.3	233.3	233.7	232.9
ansas	135.9	129.9	141.8	126.8	119.4	133.9	240.0	258.1	222.2
ouisiana	186.9	206.8	168.1	140.4	152.8	128.4	287.3	330.3	249.0
assachusetts	196.4	187.3	204.7	(1)	(1)	(1)	(1)	(1)	(1)
ew Hampshire	161.6	158.7	164.4	161.5	158.3	164.5	(2)	(2)	(2)
ew Jersey	114.0	113.9	114.0	(1)	(1)	(1)	(1)	(1)	(1)
ew Mexico	154.8	169.3	140.7	155.0	169.3	141.1	137.0	157.1	115.4
ew York	182.1	182.6	181.6	(1)	(1)	(1)	(1)	(1)	(1)
orth Carolina	216.0	205.6	226.0	165.3	161.1	169.5	382.6	354.7	407.8
regon	140.5	139.3	141.7	129.0	126.9	131.0	143.3	170.0	116.7
hode Island	131.2	124.0	138.1	127.7	122.0	133.3	140.6	(2)	(2)
outh Dakota	145.8	147.6	144.0	124.9	122.0	127.7	474.3	(2)	(2)
tah	125.4	115.3	135.1	126.3	114.8	137.3	89.3	(2)	(2)
ermont	156.8	143.6	169.4	156.6	142.2	169.7	(2)	(2)	(2)
irginia	129.2	132.7	125.9	96.8	99.9	93.6	213.0	225.9	200.7

[1] Not computed because color was unknown for more than 10 percent of persons on the State register.
[2] Not computed because the estimated State population in 1970 was less than 25,000 for this color and sex.

Table 24a.—Number of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1969

State	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	95,553	561	9,212	15,276	25,403	15,814	15,357	10,869	3,061
Connecticut	3,741	37	541	627	870	520	638	476	32
Georgia	5,809	2	349	1,206	2,531	970	393	133	225
Kansas	2,980	20	270	409	689	457	622	495	18
Louisiana	6,572	45	602	1,132	2,242	1,292	757	390	112
Massachusetts	10,660	54	907	1,499	2,385	1,785	1,848	1,672	510
New Hampshire	1,152	11	149	169	232	161	199	186	45
New Jersey	8,088	91	1,035	1,350	2,198	1,274	1,156	777	207
New Mexico	1,822	5	88	252	318	263	363	320	213
New York	31,457	155	2,979	4,667	7,718	5,370	5,559	3,811	1,198
North Carolina	10,532	41	922	1,791	2,955	1,839	1,804	1,175	5
Oregon	2,799	42	290	434	616	403	577	409	28
Rhode Island	1,175	13	132	219	320	217	165	91	18
South Dakota	923	2	80	136	194	172	175	147	17
Utah	1,353	6	120	214	242	153	323	292	3
Vermont	690	3	64	115	176	115	120	94	3
Virginia	5,800	34	684	1,056	1,717	823	658	401	427

Table 24b.—Number of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1970

State	Age								
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over	Unknown
MRA total	99,347	518	9,153	16,346	25,785	16,518	16,399	11,533	3,095
Connecticut	3,766	33	510	663	871	524	649	487	29
Georgia	6,075	1	345	1,243	2,592	1,083	428	150	233
Kansas	3,056	22	270	424	703	474	619	515	29
Louisiana	6,811	50	634	1,184	2,264	1,325	808	428	118
Massachusetts	11,193	51	879	1,869	2,104	1,875	2,278	1,498	639
New Hampshire	1,199	14	146	187	242	171	186	199	54
New Jersey	8,201	94	1,025	1,438	2,239	1,287	1,153	793	172
New Mexico	1,576	3	76	235	303	228	314	273	144
New York	33,246	124	2,960	4,999	8,012	5,682	5,928	4,345	1,196
North Carolina	10,997	46	918	1,854	3,033	1,925	1,909	1,308	4
Oregon	2,953	30	325	482	644	425	571	446	30
Rhode Island	1,248	12	134	216	357	214	209	103	3
South Dakota	971	0	71	138	203	165	205	172	17
Utah	1,340	5	118	229	240	149	309	289	1
Vermont	701	4	64	120	167	110	129	101	6
Virginia	6,014	29	678	1,065	1,811	881	704	426	420

Table 24c.—Rate of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1969

[Rate per 100,000 population]

State	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	157.2	10.9	52.4	78.7	199.8	425.6	858.9	2,492.9
Connecticut	124.7	14.7	63.3	66.0	132.2	300.6	701.1	(1)
Georgia	127.6	.5	25.3	79.0	294.0	416.3	377.9	492.6
Kansas	133.3	11.5	41.3	59.6	150.8	296.8	714.9	(1)
Louisiana	181.6	13.0	51.1	101.2	333.1	652.5	901.2	(1)
Massachusetts	188.7	11.6	56.7	85.8	198.3	472.2	914.9	3,278.4
New Hampshire	159.1	17.2	70.3	75.1	158.9	342.6	(1)	(1)
New Jersey	114.0	15.6	51.9	60.5	137.8	292.9	558.5	1,653.2
New Mexico	180.2	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York	173.7	10.5	60.6	81.1	192.6	434.8	961.8	2,865.4
North Carolina	209.3	9.5	60.7	106.6	298.8	691.4	1,555.2	4,196.4
Oregon	135.7	25.9	48.3	68.5	139.4	300.7	812.7	(1)
Rhode Island	126.1	17.3	51.6	74.5	156.1	344.4	515.6	(1)
South Dakota	138.2	3.7	37.4	73.5	144.8	366.0	648.1	(1)
Utah	129.2	5.4	34.0	64.7	138.3	318.8	(1)	(1)
Vermont	157.9	7.7	47.8	86.5	209.5	410.7	(1)	(1)
Virginia	125.7	8.7	50.2	66.3	189.5	356.3	626.7	1,485.2

[1] Not computed because the estimated State population in 1969 was less than 25,000 for this age.
[2] Not computed because age was unknown for more than 10 percent of persons on the State register.

Table 24d.—Rate of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1970

[Rate per 100,000 population]

State	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	161.7	10.0	51.5	83.3	200.7	439.9	908.0	2,621.1
Connecticut	123.9	13.0	58.9	68.8	130.8	299.4	705.4	(1)
Georgia	132.0	.2	24.7	80.6	297.9	458.9	403.8	555.6
Kansas	135.9	12.6	41.0	61.4	153.2	305.8	703.4	(1)
Louisiana	186.9	14.3	53.5	105.2	334.4	662.5	950.6	(1)
Massachusetts	196.4	10.8	54.4	106.1	173.3	490.8	1,116.7	2,880.8
New Hampshire	161.6	21.2	67.3	81.0	162.4	356.3	744.0	(1)
New Jersey	114.0	15.9	50.7	63.5	138.4	291.2	549.0	1,652.1
New Mexico	154.8	3.1	21.8	72.5	170.2	506.7	(1)	(1)
New York	182.1	8.3	59.7	86.1	198.3	456.0	1,016.8	3,242.5
North Carolina	216.0	10.5	59.7	109.1	303.3	715.6	1,631.6	4,510.3
Oregon	140.5	18.2	53.1	74.6	142.8	310.2	782.2	(1)
Rhode Island	131.2	15.8	51.3	72.0	170.0	334.4	653.1	(1)
South Dakota	145.8	0	33.3	74.6	152.6	351.1	759.3	(1)
Utah	125.4	4.4	32.7	67.8	134.1	304.1	(1)	(1)
Vermont	156.8	10.0	46.7	88.2	194.2	379.3	(1)	(1)
Virginia	129.2	7.4	49.4	66.3	198.1	378.1	664.2	1,577.8

[1] Not computed because the estimated State population in 1970 was less than 25,000 for this age.

Table 25a.—Number of Persons on Registers by Visual Acuity, MRA and Each MRA State, as of December 31, 1969

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	95,553	10,391	11,038	1,096	15,493	9,122	15,210	20,917	6,725	5,561
Connecticut	3,741	406	389	73	546	346	450	828	191	512
Georgia	5,809	879	790	109	992	561	743	1,169	358	208
Kansas	2,980	360	349	35	469	279	447	794	139	108
Louisiana	6,572	842	711	153	1,255	417	1,050	1,264	654	226
Massachusetts	10,660	784	868	77	1,550	1,239	2,496	2,488	621	537
New Hampshire	1,152	119	114	9	181	89	219	280	66	75
New Jersey	8,088	951	1,079	102	1,025	1,036	1,142	1,697	482	574
New Mexico	1,822	174	276	7	248	122	183	421	21	370
New York	31,457	3,439	3,743	387	5,693	3,012	5,099	6,632	2,849	603
North Carolina	10,532	996	1,286	55	1,749	807	1,542	2,494	607	996
Oregon	2,799	331	314	11	422	289	555	636	224	17
Rhode Island	1,175	140	137	10	186	118	151	258	52	123
South Dakota	923	113	103	12	67	85	105	136	40	262
Utah	1,353	77	98	14	166	122	256	337	32	251
Vermont	690	66	86	7	102	64	100	157	68	40
Virginia	5,800	714	695	35	842	536	672	1,326	321	659

Table 25b.—Number of Persons on Registers by Visual Acuity, MRA and Each MRA State, as of December 31, 1970

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218	5,430
nnecticut	3,766	411	398	76	543	360	464	859	193	462
orgia	6,075	896	819	110	1,008	598	774	1,236	414	220
ansas	3,056	349	360	35	493	269	457	810	155	128
uisiana	6,811	832	739	146	1,273	441	1,108	1,341	690	241
assachusetts	11,193	790	873	72	1,657	1,286	2,498	2,875	605	537
w Hampshire	1,199	120	115	12	172	89	238	307	70	76
w Jersey	8,201	926	1,075	96	1,037	1,032	1,191	1,770	486	588
w Mexico	1,576	162	244	5	221	110	170	373	22	269
w York	33,246	3,538	3,899	403	5,852	3,419	5,262	7,141	3,113	619
rth Carolina	10,997	1,018	1,313	54	1,810	810	1,613	2,679	667	1,033
regon	2,953	334	309	17	440	314	576	695	253	15
hode Island	1,248	146	144	17	194	125	167	277	55	123
uth Dakota	971	119	102	16	76	94	120	160	39	245
tah	1,340	80	89	15	168	119	259	349	36	225
rmont	701	65	84	8	102	67	103	163	68	41
rginia	6,014	732	733	32	845	541	757	1,414	352	608

Table 25c.—Percent Distribution of Persons on Registers by Visual Acuity, According to MRA and Each MRA State, as of December 31, 1969

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9	7.0	5.8
Connecticut	100.0	10.9	10.4	2.0	14.6	9.2	12.0	22.1	5.1	13.7
Georgia	100.0	15.1	13.6	1.9	17.1	9.7	12.8	20.1	6.2	3.6
Kansas	100.0	12.1	11.7	1.2	15.7	9.4	15.0	26.6	4.7	3.6
Louisiana	100.0	12.8	10.8	2.3	19.1	6.3	16.0	19.2	10.0	3.4
Massachusetts	100.0	7.4	8.1	.7	14.5	11.6	23.4	23.3	5.8	5.0
New Hampshire	100.0	10.3	9.9	.8	15.7	7.7	19.0	24.3	5.7	6.5
New Jersey	100.0	11.8	13.3	1.3	12.7	12.8	14.1	21.0	6.0	7.1
New Mexico	100.0	9.5	15.1	.4	13.6	6.7	10.0	23.1	1.2	20.3
New York	100.0	10.9	11.9	1.2	18.1	9.6	16.2	21.1	9.1	1.9
North Carolina	100.0	9.5	12.2	.5	16.6	7.7	14.6	23.7	5.8	9.5
Oregon	100.0	11.8	11.2	.4	15.1	10.3	19.8	22.7	8.0	.6
Rhode Island	100.0	11.9	11.7	.9	15.8	10.0	12.9	22.0	4.4	10.5
South Dakota	100.0	12.2	11.2	1.3	7.3	9.2	11.4	14.7	4.3	28.4
Utah	100.0	5.7	7.2	1.0	12.3	9.0	18.9	24.9	2.4	18.6
Vermont	100.0	9.6	12.5	1.0	14.8	9.3	14.5	22.8	9.9	5.8
Virginia	100.0	12.3	12.0	.6	14.5	9.2	11.6	22.9	5.5	11.4

Table 25d.—Percent Distribution of Persons on Registers by Visual Acuity, According to MRA and Each MRA State, as of December 31, 1970

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 20/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6	7.3	5.5
Connecticut	100.0	10.9	10.6	2.0	14.4	9.6	12.3	22.8	5.1	12.3
Georgia	100.0	14.7	13.5	1.8	16.6	9.8	12.7	20.3	6.8	3.6
Kansas	100.0	11.4	11.8	1.1	16.1	8.8	15.0	26.5	5.1	4.2
Louisiana	100.0	12.2	10.9	2.1	18.7	6.5	16.3	19.7	10.1	3.5
Massachusetts	100.0	7.1	7.8	.6	14.8	11.5	22.3	25.7	5.4	4.8
New Hampshire	100.0	10.0	9.6	1.0	14.3	7.4	19.8	25.6	5.8	6.3
New Jersey	100.0	11.3	13.1	1.2	12.6	12.6	14.5	21.6	5.9	7.2
New Mexico	100.0	10.3	15.5	.3	14.0	7.0	10.8	23.7	1.4	17.1
New York	100.0	10.6	11.7	1.2	17.6	10.3	15.8	21.5	9.4	1.9
North Carolina	100.0	9.3	11.9	.5	16.5	7.4	14.7	24.4	6.1	9.4
Oregon	100.0	11.3	10.5	.6	14.9	10.6	19.5	23.5	8.6	.5
Rhode Island	100.0	11.7	11.5	1.4	15.5	10.0	13.4	22.2	4.4	9.9
South Dakota	100.0	12.3	10.5	1.6	7.8	9.7	12.4	16.5	4.0	25.2
Utah	100.0	6.0	6.6	1.1	12.5	8.9	19.3	26.0	2.7	16.8
Vermont	100.0	9.3	12.0	1.1	14.6	9.6	14.7	23.3	9.7	5.8
Virginia	100.0	12.2	12.2	.5	14.1	9.0	12.6	23.5	5.9	10.1

Table 26a.—Number of Persons on Registers by Visual Acuity, Color, and Sex, MRA, as of December 31, 1969

Color and sex	Total	Visual acuity								
		Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 20/200	10/200 to less than 10/200	20/200	Restricted field.	Unknown
MRA total	95,553	10,391	11,038	1,096	15,493	9,122	15,210	20,917	6,725	5,561
Male	46,272	5,339	5,293	537	7,341	4,353	6,932	10,069	3,657	2,751
Female	49,281	5,052	5,745	559	8,152	4,769	8,278	10,848	3,068	2,810
White	46,442	4,592	4,936	471	6,882	4,563	7,756	10,883	2,599	3,760
Male	22,515	2,445	2,403	241	3,266	2,150	3,445	5,217	1,48	1,866
Female	23,927	2,147	2,533	230	3,616	2,413	4,311	5,666	1,117	1,894
Other	14,631	2,158	2,119	217	2,580	1,240	1,719	2,653	1,106	829
Male	7,204	1,066	973	101	1,201	635	826	1,289	614	409
Female	7,427	1,092	1,145	116	1,289	605	893	1,374	492	420
Unknown	34,480	3,641	3,983	408	6,031	3,319	5,735	7,371	3,020	972
Male	16,553	1,828	1,917	195	2,784	1,568	2,661	3,763	1,561	476
Female	17,927	1,813	2,066	213	3,247	1,751	3,074	3,808	1,459	496

Table 26b.—Number of Persons on Registers by Visual Acuity, Color, and Sex, MRA, as of December 31, 1970

Color and sex	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218	5,430
Male	47,942	5,384	5,386	534	7,474	4,549	7,273	10,765	3,912	2,665
Female	51,405	5,134	5,910	580	8,417	5,125	8,484	11,684	3,306	2,765
White	47,262	4,580	4,965	476	6,973	4,593	7,913	1 ,4 0	2,69	3,609
Male	22,834	2,435	2,402	240	3,295	2,152	3,587	5,406	1,539	1,778
Female	24,428	2,145	2,56?	236	3,678	2,441	4,326	6,054	1,154	1,831
Other	15,130	2,174	2,174	213	2,640	1,273	1,785	2,827	1,215	829
Male	7,413	1,071	998	97	1,310	633	859	1,360	679	406
Female	7,717	1,103	1,176	116	1,330	640	926	1,467	536	423
Unknown	36,955	3,764	4,157	425	6,278	3,808	6,059	8,162	3,310	992
Male	17,695	1,878	1,986	197	2,869	1,764	2,827	3,999	1,694	481
Female	19,260	1,886	2,171	228	3,409	2,044	3,232	4,163	1,616	511

Table 26c.—Percent Distribution of Persons on Registers by Visual Acuity, According to Color and Sex, MRA, as of December 31, 1969

Color and sex	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9	7.0	5.8
Male	100.0	11.5	11.4	1.2	15.9	9.4	15.0	21.8	7.9	5.9
Female	100.0	10.3	11.7	1.1	16.5	9.7	16.8	22.0	6.2	5.7
White	100.0	9.9	10.6	1.0	14.8	9.8	16.7	23.4	5.6	8.1
Male	100.0	10.9	10.7	1.1	14.5	9.5	15.3	23.2	6.6	8.3
Female	100.0	9.0	10.6	1.0	15.1	10.1	18.0	23.7	4.7	7.9
Other	100.0	14.7	14.5	1.5	17.6	8.5	11.7	18.2	7.6	5.7
Male	100.0	14.8	13.5	1.4	17.9	8.8	11.5	17.9	8.5	5.7
Female	100.0	14.7	15.4	1.6	17.4	8.1	12.0	18.5	6.6	5.7
Unknown	100.0	10.6	11.6	1.2	17.5	9.6	16.6	21.4	8.8	2.8
Male	100.0	11.0	11.6	1.2	16.8	9.5	16.1	21.5	9.4	2.9
Female	100.0	10.1	11.5	1.2	18.1	9.8	17.1	21.2	8.1	2.8

Table 26d.—Percent Distribution of Persons on Registers by Visual Acuity, According to Color and Sex, MRA, as of December 31, 1970

Color and sex	Visual acuity									
	Total	Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6	7.3	5.5
Male	100.0	11.2	11.2	1.1	15.6	9.5	15.2	22.5	8.2	5.6
Female	100.0	10.0	11.5	1.1	16.4	10.0	16.5	22.7	6.4	5.4
White	100.0	9.7	10.5	1.0	14.8	9.7	16.7	24.2	5.7	7.6
Male	100.0	10.7	10.5	1.1	14.4	9.4	15.7	23.7	6.7	7.8
Female	100.0	8.8	10.5	1.0	15.1	10.0	17.7	24.8	4.7	7.5
Other	100.0	14.4	14.4	1.4	17.4	8.4	11.8	18.7	8.0	5.5
Male	100.0	14.4	13.5	1.3	17.7	8.5	11.6	18.3	9.2	5.5
Female	100.0	14.3	15.2	1.5	17.2	8.3	12.0	19.0	6.9	5.5
Unknown	100.0	10.2	11.2	1.2	17.0	10.3	16.4	22.1	9.0	2.7
Male	100.0	10.6	11.2	1.1	16.2	10.0	16.0	22.6	9.6	2.7
Female	100.0	9.8	11.3	1.2	17.7	10.6	16.8	21.6	8.4	2.7

Table 27a.—Number of Persons on Registers by Visual Acuity and Age, MRA, as of December 31, 1969

Age	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	95,553	10,391	11,038	1,096	15,493	9,122	15,210	20,917	6,725	5,561
Under 5	561	131	131	11	35	8	22	23	0	200
5–19	9,212	1,452	1,271	103	794	584	1,174	2,377	236	1,221
20–44	15,276	2,076	1,743	155	1,959	1,250	2,330	3,882	1,083	798
45–64	25,403	2,847	3,024	300	4,343	2,471	4,002	4,978	2,455	983
65–74	15,814	1,580	1,852	195	2,975	1,519	2,490	3,290	1,323	590
75–84	15,357	1,322	1,671	171	2,890	1,711	2,651	3,315	944	682
85 and over	10,869	774	1,135	137	2,087	1,296	1,978	2,323	450	689
Unknown	3,061	209	211	24	410	283	563	729	234	398

Table 27b.—Number of Persons on Registers by Visual Acuity and Age, MRA, as of December 31, 1970

Age	Total	Visual acuity								
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218	5,430
Under 5	518	126	108	8	29	10	19	17	0	201
5–19	9,153	1,397	1,235	103	786	576	1,190	2,399	234	1,233
20–44	16,346	2,190	1,907	154	2,041	1,383	2,477	4,194	1,209	791
45–64	25,785	2,862	2,978	300	4,311	2,531	3,908	5,324	2,576	995
65–74	16,518	1,607	1,882	205	3,068	1,587	2,639	3,536	1,457	537
75–84	16,399	1,344	1,759	173	3,006	1,871	2,822	3,694	1,055	675
85 and over	11,533	793	1,217	144	2,234	1,417	2,091	2,517	451	669
Unknown	3,095	199	210	27	416	299	611	768	236	329

Table 27c.—Percent Distribution of Persons on Registers by Visual Acuity, According to Age, MRA, as of December 31, 1969

Age	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9	7.0	5.8
Under 5	100.0	23.4	23.4	2.0	6.2	1.4	3.9	4.1	0	35.7
5–19	100.0	15.8	13.8	1.1	8.6	6.3	12.7	25.8	2.6	13.3
20–44	100.0	13.6	11.4	1.0	12.8	8.2	15.3	25.4	7.1	5.2
45–64	100.0	11.2	11.9	1.2	17.1	9.7	15.8	19.6	9.7	3.9
65–74	100.0	10.0	11.7	1.2	18.8	9.6	15.7	20.8	8.4	3.7
75–84	100.0	8.6	10.9	1.1	18.8	11.1	17.3	21.6	6.1	4.4
85 and over	100.0	7.1	10.4	1.3	19.2	11.9	18.2	21.4	4.1	6.3
Unknown	100.0	6.8	6.9	.8	13.4	9.2	18.4	23.8	7.6	13.0

Table 27d.—Percent Distribution of Persons on Registers by Visual Acuity, According to Age, MRA, as of December 31, 1970

Age	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6	7.3	5.5
Under 5	100.0	24.3	20.8	1.5	5.6	1.9	3.7	3.3	0	38.8
5–19	100.0	15.3	13.5	1.1	8.6	6.3	13.0	26.2	2.6	13.5
20–44	100.0	13.4	11.7	.9	12.5	8.5	15.2	25.7	7.4	4.8
45–64	100.0	11.1	11.5	1.2	16.7	9.8	15.2	20.6	10.0	3.9
65–74	100.0	9.7	11.4	1.2	18.6	9.6	16.0	21.4	8.8	3.3
75–84	100.0	8.2	10.7	1.1	18.3	11.4	17.2	22.5	6.4	4.1
85 and over	100.0	6.9	10.6	1.2	19.4	12.3	18.1	21.8	3.9	5.8
Unknown	100.0	6.4	6.8	.9	13.4	9.7	19.7	24.8	7.6	10.6

Table 28a.—Estimated Midyear Population by Age, Color, and Sex, MRA, 1969

[In thousands]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	60,782	5,138	17,578	19,415	12,712	3,716	1,788	436
Male	29,433	2,619	8,927	9,424	6,033	1,587	692	152
Female	31,349	2,519	8,651	9,991	6,679	2,129	1,096	284
White	52,470	4,232	14,702	16,757	1,377	3,357	1,650	395
Male	25,488	2,164	7,488	8,211	5,422	1,432	635	136
Female	26,982	2,068	7,213	8,547	5,955	1,925	1,015	259
Other	8,312	906	2,876	2,658	1,335	359	137	41
Male	3,945	455	1,439	1,213	611	155	57	16
Female	4,367	451	1,438	1,444	724	203	81	25

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28b.—Estimated Midyear Population by Age, Color, and Sex, MRA, 1970

[In thousands]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	61,426	5,193	17,764	19,621	12,847	3,755	1,806	440
Male	29,746	2,647	9,022	9,524	6,097	1,604	699	153
Female	31,680	2,546	8,743	10,097	6,750	2,151	1,107	287
White	53,032	4,278	14,860	16,937	11,498	3,392	1,668	399
Male	25,761	2,188	7,569	8,299	5,480	1,447	642	137
Female	27,271	2,090	7,291	8,638	6,018	1,945	1,026	262
Other	8,394	915	2,905	2,684	1,348	362	139	41
Male	3,984	459	1,453	1,225	617	157	57	16
Female	4,410	455	1,452	1,459	732	205	81	25

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 468, Oct 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28c.—Estimated Midyear Population by Age, Color, and Sex, MRA, Excluding New York State, 1969

[In thousands]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	42,677	3,662	12,660	13,658	8,705	2,481	1,210	303
Male	20,781	1,866	6,436	6,693	4,156	1,060	466	105
Female	21,896	1,796	6,224	6,955	4,549	1,421	744	198
White	36,750	3,011	10,531	11,867	7,761	2,210	1,101	270
Male	17,947	1,539	5,370	5,863	3,719	943	420	92
Female	18,804	1,471	5,160	6,005	4,042	1,267	681	178
Other	5,927	651	2,129	1,790	944	271	107	33
Male	2,834	327	1,066	830	437	117	45	13
Female	3,093	325	1,064	960	507	153	63	20

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28d.—Estimated Midyear Population by Age, Color, and Sex, MRA, Excluding New York State, 1970

[In thousands]

Color and sex	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	43,166	3,704	12,804	13,814	8,806	2,509	1,223	306
Male	21,020	1,888	6,509	6,770	4,204	1,072	471	106
Female	22,146	1,817	6,295	7,045	4,602	1,437	752	200
White	37,178	3,046	10,653	12,005	7,851	2,235	1,115	273
Male	18,155	1,558	5,433	5,931	3,762	953	426	93
Female	19,023	1,488	5,220	6,074	4,088	1,281	689	180
Other	5,988	658	2,152	1,809	954	273	109	33
Male	2,863	330	1,077	838	442	119	45	13
Female	3,125	327	1,075	971	513	154	63	20

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 468, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28e.—Estimated Midyear Population by Color and Sex, MRA and Each MRA State, 1969

[In thousands]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	60,782	29,433	31,349	52,470	25,488	26,982	8,312	3,945	4,367
Connecticut	3,000	1,455	1,545	2,806	1,363	1,443	194	92	102
Georgia	4,551	2,212	2,339	3,363	1,653	1,710	1,188	559	629
Kansas	2,236	1,096	1,140	2,112	1,035	1,077	124	61	62
Louisiana	3,619	1,761	1,858	2,526	1,242	1,284	1,093	519	574
Massachusetts	5,650	2,701	2,949	5,440	2,601	2,839	210	100	110
New Hampshire	724	354	370	720	352	368	4	2	2
New Jersey	7,095	3,432	3,663	6,285	3,049	3,236	810	383	427
New Mexico	1,011	498	513	911	450	461	100	48	51
New York	18,105	8,652	9,453	15,720	7,541	8,178	2,385	1,111	1,274
North Carolina	5,031	2,463	2,568	3,863	1,902	1,961	1,168	562	607
Oregon	2,062	1,010	1,052	2,004	981	1,023	58	29	29
Rhode Island	932	457	475	901	441	460	31	16	15
South Dakota	668	331	337	633	314	319	35	18	18
Utah	1,047	517	530	1,020	503	517	27	14	13
Vermont	437	214	223	435	213	223	2	1	1
Virginia	4,614	2,280	2,334	3,734	1,851	1,883	880	429	451

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28f.—Estimated Midyear Population by Color and Sex, MRA and Each MRA State, 1970

[In thousands]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	61,426	29,746	31,680	53,032	25,761	27,271	8,394	3,984	4,410
Connecticut	3,039	1,474	1,565	2,842	1,381	1,462	197	94	103
Georgia	4,602	2,237	2,365	3,400	1,671	1,729	1,202	566	636
Kansas	2,248	1,102	1,146	2,123	1,040	1,083	125	62	63
Louisiana	3,644	1,773	1,871	2,543	1,251	1,293	1,101	522	578
Massachusetts	5,699	2,724	2,975	5,487	2,623	2,864	212	101	111
New Hampshire	742	363	379	737	360	377	5	2	2
New Jersey	7,195	3,480	3,715	6,374	3,092	3,282	821	389	433
New Mexico	1,018	502	516	918	453	465	100	49	52
New York	18,260	8,726	9,534	15,854	7,606	8,248	2,406	1,121	1,285
North Carolina	5,091	2,493	2,598	3,909	1,924	1,984	1,182	569	614
Oregon	2,102	1,029	1,073	2,042	1,000	1,043	60	30	30
Rhode Island	951	466	485	919	450	469	32	16	16
South Dakota	666	330	336	631	313	318	35	17	18
Utah	1,069	528	541	1,041	514	528	28	14	13
Vermont	447	218	229	445	218	228	2	1	1
Virginia	4,653	2,299	2,354	3,765	1,867	1,899	888	433	455

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 468, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28g.—Estimated Midyear Population by Age, MRA and Each MRA State, 1969

[In thousands]

State	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	60,782	5,138	17,578	19,415	12,712	3,716	1,788	436
Connecticut	3,000	251	855	950	658	173	91	22
Georgia	4,551	418	1,382	1,526	861	233	104	27
Kansas	2,236	174	654	686	457	154	87	24
Louisiana	3,619	346	1,177	1,119	673	198	84	22
Massachusetts	5,650	467	1,601	1,747	1,203	378	202	51
New Hampshire	724	64	212	225	146	47	24	6
New Jersey	7,095	583	1,994	2,232	1,595	435	207	47
New Mexico	1,011	96	345	322	177	45	21	5
New York	18,105	1,476	4,918	5,757	4,007	1,235	578	133
North Carolina	5,031	433	1,520	1,680	989	266	116	28
Oregon	2,062	162	600	634	442	134	71	18
Rhode Island	932	75	256	294	205	63	32	8
South Dakota	668	54	214	185	134	47	27	7
Utah	1,047	111	353	331	175	48	23	6
Vermont	437	39	134	133	84	28	15	4
Virginia	4,614	389	1,362	1,593	906	231	105	27

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 28h.—Estimated Midyear Population by Age, MRA and Each MRA State, 1970

[In thousands]

State	Age							
	Total	Under 5	5–19	20–44	45–64	65–74	75–84	85 and over
MRA total	61,426	5,193	17,764	19,621	12,847	3,755	1,806	440
Connecticut	3,039	254	866	963	666	175	92	22
Georgia	4,602	423	1,398	1,543	870	236	106	27
Kansas	2,248	175	658	690	459	155	88	24
Louisiana	3,644	349	1,185	1,126	677	200	85	22
Massachusetts	5,699	471	1,615	1,762	1,214	382	204	52
New Hampshire	742	66	217	231	149	48	25	6
New Jersey	7,195	591	2,022	2,264	1,618	442	210	48
New Mexico	1,018	97	348	324	178	45	21	5
New York	18,260	1,489	4,960	5,807	4,041	1,246	583	134
North Carolina	5,091	438	1,538	1,700	1,000	269	117	29
Oregon	2,102	165	612	646	451	137	73	19
Rhode Island	951	76	261	300	210	64	32	8
South Dakota	666	54	213	185	133	47	27	7
Utah	1,069	113	361	338	179	49	24	6
Vermont	447	40	137	136	86	29	15	4
Virginia	4,653	392	1,373	1,607	914	233	106	27

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P–25, No. 468, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

Table 29a.—Age-Standardized Rate of All Additions to Registers by Sex, Color, and Cause, 14 MRA States, Average 1969 and 1970

[Average annual rate per 100,000]

Cause	Total			Male			Female		
	Total	White	Other	Total	White	Other	Total	White	Other
All causes	14.2	12.1	28.7	14.3	12.3	28.9	14.0	11.8	28.5
Glaucoma	1.5	.8	6.5	1.7	.8	7.9	1.3	.7	5.4
Cataract, total	2.1	1.8	4.1	1.9	1.7	3.6	2.2	1.8	4.5
Prenatal	.4	.3	.7	.4	.3	.6	.4	.3	.7
Other	1.7	1.5	3.4	1.5	1.3	2.9	1.8	1.5	3.9
Retinal disease, total	4.2	4.1	5.3	4.0	4.0	4.4	4.3	4.1	6.0
Prenatal	.8	.8	.7	.9	.9	.8	.7	.7	.7
Diabetic	1.2	1.1	2.5	1.0	.9	1.2.	1.4	1.1	3.5
Other	2.2	2.2	2.1	2.2	2.1	2.4	2.2	2.2	1.8
Retrolental fibroplasia	.1	.1	.1	.1	.2	.1	.1	.1	.1
Myopia	.3	.3	.6	.3	.3	.7	.3	.2	.5
Cornea or sclera	.4	.2	1.2	.4	.2	1.3	.4	.2	1.0
Uveitis	.4	.3	1.0	.4	.3	.8	.4	.3	1.1
Optic nerve disease	.9	.8	2.0	1.2	1.0	2.5	.7	.6	1.6
Multiple affections	1.3	1.2	2.8	1.1	.0	1.9	1.5	1.2	3.5
Other	1.2	1.0	2.2	1.3	1.1	2.6	1.0	.9	1.8
Unknown	1.8	1.6	2.9	1.8	1.7	3.1	1.7	1.5	2.8

Table 29b.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

TOTAL

[Average annual rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	5,328	14.2	147	4.5	585	5.2	764	6.3	1,646	21.7	729	34.3	948	93.1	509	199.6
Glaucoma	544	1.5	0	0	0	0	25	.2	224	3.0	124	5.8	128	12.6	43	16.9
Cataract, total	778	2.1	28	.9	80	.7	52	.4	267	3.5	104	4.9	143	14.0	104	40.8
Prenatal	145	.4	28	.9	72	.6	26	.2	17	.2	2	.1	0	0	0	0
Other	633	1.7	0	0	8	.1	26	.2	250	3.3	102	4.8	143	14.0	104	40.8
Retinal disease, total	1,585	4.2	13	.4	104	.9	257	2.1	497	6.5	243	11.4	323	31.7	148	58.0
Prenatal	302	.8	9	.3	78	.7	99	.8	98	1.3	11	.5	7	.7	0	0
Diabetic	464	1.2	0	0	1	0	84	.7	244	3.2	98	4.6	34	3.3	3	1.2
Other	819	2.2	4	.1	25	.2	74	.6	155	2.0	134	6.3	282	27.7	145	56.9
Retrolental fibroplasia	52	.1	11	.3	34	.3	7	.1	0	0	0	0	0	0	0	0
Myopia	118	.3	2	.1	35	.3	26	.2	37	.5	12	.6	6	.6	0	0
Cornea or sclera	136	.4	2	.1	9	.1	30	.2	62	.8	14	.7	17	1.7	2	.8
Uveitis	154	.4	1	0	13	.1	51	.4	60	.8	16	.8	11	1.1	2	.8
Optic nerve disease	352	.9	19	.6	84	.8	97	.8	104	1.4	26	1.2	17	1.7	5	2.0
Multiple affections	504	1.3	0	0	3	0	16	.1	130	1.7	94	4.4	163	16.0	98	38.4
Other	443	1.2	48	1.5	163	1.5	116	1.0	86	1.1	16	.8	11	1.1	3	1.2
Unknown	662	1.8	23	.7	60	.5	87	.7	179	2.4	80	3.8	129	12.7	104	40.8

Table 29c.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

MALE, TOTAL

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	2,437	13.3	77	4.7	325	5.7	436	7.4	807	22.2	290	31.6	352	88.9	150	166.7
Glaucoma.....	276	1.5	0	0	0	0	18	.3	126	3.5	60	6.5	56	14.1	16	17.8
Cataract, total.....	321	1.8	15	.9	45	.8	25	.4	125	3.4	37	4.0	48	12.1	26	28.9
Prenatal.....	73	.4	15	.9	39	.7	10	.2	8	.2	1	.1	0	0	0	0
Other.....	248	1.4	0	0	6	.1	15	.3	117	3.2	36	3.9	48	12.1	26	28.9
Retinal disease, total..	680	3.7	7	.4	59	1.0	145	2.5	226	6.2	87	9.5	118	29.8	38	42.2
Prenatal.....	162	.9	5	.3	42	.7	54	.9	54	1.5	5	.5	2	.5	0	0
Diabetic.....	172	.9	0	0	1	0	50	.8	89	2.4	26	2.8	6	1.5	0	0
Other.....	346	1.9	2	.1	16	.3	41	.7	83	2.3	56	6.1	110	27.8	38	42.2
Retrolental fibroplasia	28	.2	6	.4	18	.3	4	.1	0	0	0	0	0	0	0	0
Myopia.....	62	.3	2	.1	21	.4	17	.3	16	.4	4	.4	2	.5	0	0
Cornea or sclera.....	65	.4	2	.1	6	.1	16	.3	30	.8	4	.4	7	1.8	0	0
Uveitis.....	72	.4	1	.1	7	.1	28	.5	24	.7	6	.7	6	1.5		0
Optic nerve disease...	213	1.2	10	.6	54	.9	59	1.0	64	1.8	16	1.7	9	2.3	1	1.1
Multiple affections....	173	.9	0	0	2	0	5	.1	49	1.3	34	3.7	51	12.9	32	35.6
Other.....	244	1.3	22	1.3	89	1.6	65	1.1	54	1.5	8	.9	5	1.3	1	1.1
Unknown.....	303	1.7	12	.7	24	.4	54	.9	93	2.6	34	3.7	50	12.6	36	40.0

Table 29d.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

FEMALE, TOTAL

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	2,891	15.1	70	4.4	260	4.7	328	5.3	839	21.2	439	36.3	596	95.8	359	217.6
Glaucoma	268	1.4	0	0	0	0	7	.1	98	2.5	64	5.3	72	11.6	27	16.4
Cataract, total	457	2.4	13	.8	35	.6	27	.4	142	3.6	67	5.5	95	15.3	78	47.3
Prenatal	72	.4	13	.8	33	.6	16	.3	9	.2	1	.1	0	0	0	0
Other	385	2.0	0	0	2	0	11	.2	133	3.4	66	5.5	95	15.3	78	47.3
Retinal disease, total	905	4.7	6	.4	45	.8	112	1.8	271	6.9	156	12.9	205	33.0	110	66.7
Prenatal	140	.7	4	.3	36	.7	45	.7	44	1.1	6	.5	5	.8	0	0
Diabetic	292	1.5	0	0	0	0	34	.6	155	3.9	72	6.0	28	4.5	3	1.8
Other	473	2.5	2	.1	9	.2	33	.5	72	1.8	78	6.5	172	27.7	107	64.8
Retrolental fibroplasia	24	.1	5	.3	16	.3	3	0	0	0	0	0	0	0	0	0
Myopia	56	.3	0	0	14	.3	9	.1	21	.5	8	.7	4	.6	0	0
Cornea or sclera	71	.4	0	0	3	.1	14	.2	32	.8	10	.8	10	1.6	2	1.2
Uveitis	82	.4	0	0	6	.1	23	.4	36	.9	10	.8	5	.8	2	1.2
Optic nerve disease	139	.7	9	.6	30	.5	38	.6	40	1.0	10	.8	8	1.3	4	2.4
Multiple affections	331	1.7	0	0	1	0	11	.2	81	2.0	60	5.0	112	18.0	66	40.0
Other	199	1.0	26	1.6	74	1.3	51	.8	32	.8	8	.7	6	1.0	2	1.2
Unknown	359	1.9	11	.7	36	.7	33	.5	86	2.2	46	3.8	79	12.7	68	41.2

Table 29e.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

WHITE, TOTAL

[Average annual rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	3,942	12.4	10	4.1	440	4.8	543	5.3	1,071	16.1	531	28.5	799	87.4	452	202.7
Glaucoma.....	250	.8	0	0	0	0	7	.1	70	1.1	56	3.0	84	9.2	33	14.8
Cataract, total.....	582	1.8	17	.7	58	.6	39	.4	192	2.9	80	4.3	112	12.3	84	37.7
Prenatal.....	103	.3	17	.7	52	.6	18	.2	14	.2	2	.1	0	0	0	0
Other.....	479	1.5	0	0	6	.1	21	.2	178	2.7	78	4.2	112	12.3	84	37.7
Retinal disease, total..	1332	4.2	10	.4	88	1.0	213	2.1	375	5.6	203	10.9	303	33.2	140	62.8
Prenatal.....	262	.8	8	.3	68	.7	83	.8	85	1.3	11	.6	7	.8	0	0
Diabetic.....	349	1.1	0	0	1	0	74	.7	169	2.5	72	3.9	30	3.3	3	1.3
Other....	721	2.3	2	.1	19	.2	56	.5	121	1.8	120	6.5	266	29.1	137	61.4
Retrolental fibroplasia	45	.1	11	.4	28	.3	6	.1	0	0	0	0	0	0	0	0
Myopia.....	82	.3	0	0	20	.2	16	.2	31	.5	10	.5	5	.5	0	0
Cornea or sclera.....	79	.2	0	0	5	.1	14	.1	34	.5	12	.6	12	1.3	2	.9
Uveitis.....	105	.3	1	0	9	.1	32	.3	38	.6	13	.7	10	1.1	2	.9
Optic nerve disease...	248	.8	14	.5	70	.8	65	.6	64	1.0	16	.9	14	1.5	5	2.2
Multiple affections....	381	1.2	0	0	2	0	10	.1	79	1.2	66	3.5	137	15.0	87	39.0
Other.....	318	1.0	35	1.3	116	1.3	79	.8	64	1.0	12	.6	9	1.0	3	1.3
Unknown.....	520	1.6	18	.7	44	.5	62	.6	124	1.9	63	3.4	113	12.4	6	43.0

Table 29f.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

MALE, WHITE

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	1,798	11.6	55	4.1	252	5.4	316	6.2	550	17.1	217	27.1	280	79.3	128	166.2
Glaucoma	118	.8	0	0	0	0	6	.1	40	1.2	28	3.5	31	8.8	13	16.9
Cataract, total	243	1.6	10	.8	34	.7	19	.4	95	3.0	31	3.9	36	10.2	18	23.4
Prenatal	53	.3	10	.8	30	.6	6	.1	6	.2	1	.1	0	0	0	0
Other	190	1.2	0	0	4	.1	13	.3	89	2.8	30	3.7	36	10.2	18	23.4
Retinal disease, total	583	3.8	7	.5	51	1.1	120	2.3	186	5.8	75	9.4	108	30.6	36	46.8
Prenatal	142	.9	5	.4	38	.8	44	.9	48	1.5	5	.6	2	.6	0	0
Diabetic	146	.9	0	0	1	0	46	.9	73	2.3	20	2.5	6	1.7	0	0
Other	295	1.9	2	.2	12	.3	30	.6	65	2.0	50	6.2	100	28.3	36	46.8
Retrolental fibroplasia	24	.2	6	.5	14	.3	4	.1	0	0	0	0	0	0	0	0
Myopia	42	.3	0	0	12	.3	11	.2	14	.4	4	.5	1	.3	0	0
Cornea or sclera	35	.2	0	0	4	.1	8	.2	16	.5	4	.5	3	.8	0	0
Uveitis	52	.3	1	.1	5	.1	18	.4	16	.5	6	.7	6	1.7	0	0
Optic nerve disease	154	1.0	8	.6	46	1.0	40	.8	42	1.3	10	1.2	7	2.0	1	1.3
Multiple affections	137	.9	0	0	2	0	4	.1	35	1.1	26	3.2	43	12.2	27	35.1
Other	173	1.1	13	1.0	64	1.4	46	.9	40	1.2	6	.7	3	.8	1	1.3
Unknown	237	1.5	10	.8	20	.4	40	.8	66	2.1	27	3.4	42	11.9	32	41.6

Table 29g.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

FEMALE, WHITE

[Average annual rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	2,144	13.3	51	4.0	188	4.2	227	4.4	521	15.1	314	29.7	519	92.5	324	221.9
Glaucoma	132	.8	0	0	0	0	1	0	30	.9	28	2.6	53	9.4	20	13.7
Cataract, total	339	2.1	7	.6	24	.5	20	.4	97	2.8	49	4.6	76	13.5	66	45.2
Prenatal	50	.3	7	.6	22	.5	12	.2	8	.2	1	.1	0	0	0	0
Other	289	1.8	0	0	2	0	8	.2	89	2.6	48	4.5	76	13.5	66	45.2
Retinal disease, total	749	4.6	3	.2	37	.8	93	1.8	189	5.5	128	12.1	195	34.8	104	71.2
Prenatal	120	.7	3	.2	30	.7	39	.7	37	1.1	6	.6	5	.9	0	0
Diabetic	203	1.3	0	0	0	0	28	.5	96	2.8	52	4.9	24	4.3	3	2.1
Other	426	2.6	0	0	7	.2	26	.5	56	1.6	70	6.6	166	29.6	101	69.2
Retrolental fibroplasia	21	.1	5	.4	14	.3	2	0	0	0	0	0	0	0	0	0
Myopia	40	.2	0	0	8	.2	5	.1	17	.5	6	.6	4	.7	0	0
Cornea or sclera	44	.3	0	0	1	0	6	.1	18	.5	8	.8	9	1.6	2	1.4
Uveitis	53	.3	0	0	4	.1	14	.3	22	.6	7	.7	4	.7	2	1.4
Optic nerve disease	94	.6	6	.5	24	.5	25	.5	22	.6	6	.6	7	1.2	4	2.7
Multiple affections	244	1.5	0	0	0	0	6	.1	44	1.3	40	3.8	94	16.8	60	41.1
Other	145	.9	22	1.7	52	1.2	33	.6	24	.7	6	.6	6	1.1	2	1.4
Unknown	283	1.8	8	.6	24	.5	22	.4	58	1.7	36	3.4	71	12.7	64	43.8

Table 29h.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

OTHER COLOR, TOTAL

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	1,386	24.0	41	6.5	145	7.0	221	12.8	575	62.2	198	74.4	149	143.3	57	178.1
Glaucoma.....	294	5.1	0	0	0	0	18	1.0	154	16.6	68	25.6	44	42.3	10	31.3
Cataract, total.....	196	3.4	11	1.7	22	1.1	13	.8	75	8.1	24	9.0	31	29.8	20	62.5
Prenatal.....	42	.7	11	1.7	20	1.0	8	.5	3	.3	0	0	0	0	0	0
Other.....	154	2.7	0	0	2	.1	5	.3	72	7.8	24	9.0	31	29.8	20	62.5
Retinal disease, total..	253	4.4	3	.5	16	.8	44	2.5	122	13.2	40	15.0	20	19.2	8	25.0
Prenatal.....	40	.7	1	.2	10	.5	16	.9	13	1.4	0	0	0	0	0	0
Diabetic.....	115	2.0	0	0	0	0	10	.6	75	8.1	26	9.8	4	3.8	0	0
Other.....	98	1.7	2	.3	6	.3	18	1.0	34	3.7	14	5.3	16	15.4	8	25.0
Retrolental fibroplasia	7	.1	0	0	6	.3	1	.1	0	0	0	0	0	0	0	0
Myopia.....	36	.6	2	.3	15	.7	10	.6	6	.6	2	.8	1	1.0	0	0
Cornea or sclera.....	57	1.0	2	.3	4	.2	16	.9	28	3.0	2	.8	5	4.8	0	0
Uveitis.....	49	.8	0	0	4	.2	19	1.1	22	2.4	3	1.1	1	1.0	0	0
Optic nerve disease...	104	1.8	5	.8	14	.7	32	1.8	40	4.3	10	3.8	3	2.9	0	0
Multiple affections....	123	2.1	0	0	1	0	6	.3	51	5.5	28	10.5	26	25.0	11	34.4
Other.....	125	2.2	13	2.1	47	2.3	37	2.1	22	2.4	4	1.5	2	1.9	0	0
Unknown.....	142	2.5	5	.8	16	.8	25	1.4	55	5.9	17	6.4	16	15.4	8	25.0

Table 29i.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

MALE, OTHER COLOR

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	639	23.1	22	6.9	73	7.0	120	14.9	257	60.0	73	62.9	72	167.4	22	169.2
Glaucoma	158	5.7	0	0	0	0	12	1.5	86	20.1	32	27.6	25	58.1	3	23.1
Cataract, total	78	2.8	5	1.6	11	1.1	6	.7	30	7.0	6	5.2	12	27.9	8	61.5
Prenatal	20	.7	5	1.6	9	.9	4	.5	2	.5	0	0	0	0	0	0
Other	58	2.1	0	0	2	.2	2	.2	28	6.5	6	5.2	12	27.9	8	61.5
Retinal disease, total	97	3.5	0	0	8	.8	25	3.1	40	9.3	12	10.3	10	23.3	2	15.4
Prenatal	20	.7	0	0	4	.4	10	1.2	6	1.4	0	0	0	0	0	0
Diabetic	26	.9	0	0	0	0	4	.5	16	3.7	6	5.2	0	0	0	0
Other	51	1.8	0	0	4	.4	11	1.4	18	4.2	6	5.2	10	23.3	2	15.4
Retrolental fibroplasia	4	.1	0	0	4	.4	0	0	0	0	0	0	0	0	0	0
Myopia	20	.7	2	.6	9	.9	6	.7	2	.5	0	0	1	2.3	0	0
Cornea or sclera	30	1.1	2	.6	2	.2	8	1.0	14	3.3	0	0	4	9.3	0	0
Uveitis	20	.7	0	0	2	.2	10	1.2	8	1.9	0	0	0	0	0	0
Optic nerve disease	59	2.1	2	.6	8	.8	19	2.4	22	5.1	6	5.2	2	4.7	0	0
Multiple affections	36	1.3	0	0	0	0	1	.1	14	3.3	8	6.9	8	18.6	5	38.5
Other	71	2.6	9	2.8	25	2.4	19	2.4	14	3.3	2	1.7	2	4.7	0	0
Unknown	66	2.4	2	.6	4	.4	14	1.7	27	6.3	7	6.0	8	18.6	4	30.8

Table 29j.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

FEMALE, OTHER COLOR

[Average annual rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	747	24.8	19	6.1	72	6.9	101	10.9	318	64.0	125	83.3	77	126.2	35	184.2
Glaucoma.....	136	4.5	0	0	0	0	6	.6	68	13.7	36	24.0	19	31.1	7	36.8
Cataract, total.....	118	3.9	6	1.9	11	1.1	7	.8	45	9.1	18	12.0	19	31.1	12	63.2
Prenatal.....	22	.7	6	1.9	11	1.1	4	.4	1	.2	0	0	0	0	0	0
Other.....	96	3.2	0	0	0	0	3	.3	44	8.9	18	12.0	19	31.1	12	63.2
Retinal disease, total..	156	5.2	3	1.0	8	.8	19	2.0	82	16.5	28	18.7	10	16.4	6	31.6
Prenatal.....	20	.7	1	.3	6	.6	6	.6	7	1.4	0	0	0	0	0	0
Diabetic.....	89	3.0	0	0	0	0	6	.6	59	11.9	20	13.3	4	6.6	0	0
Other.....	47	1.6	2	.6	2	.2	7	.8	16	3.2	8	5.3	6	9.8	6	31.6
Retrolental fibroplasia	3	.1	0	0	2	.2	1	.1	0	0	0	0	0	0	0	0
Myopia.....	16	.5	0	0	6	.6	4	.4	4	.8	2	1.3	0	0	0	0
Cornea or sclera.....	27	.9	0	0	2	.2	8	.9	14	2.8	2	1.3	1	1.6	0	0
Uveitis.....	29	1.0	0	0	2	.2	9	1.0	14	2.8	3	2.0	1	1.6	0	0
Optic nerve disease...	45	1.5	3	1.0	6	.6	13	1.4	18	3.6	4	2.7	1	1.6	0	0
Multiple affections....	87	2.9	0	0	1	.1	5	.5	37	7.4	20	13.3	18	29.5	6	31.6
Other.....	54	1.8	4	1.3	22	2.1	18	1.9	8	1.6	2	1.3	0	0	0	0
Unknown.....	76	2.5	3	1.0	12	1.2	11	1.2	28	5.6	10	6.7	8	13.1	4	21.1

Table 30a.—Age-Standardized Rate of Persons on Registers by Sex, Color, and Cause, 14 MRA States, December 31, 1970

[Rate per 100,000]

Cause	Total			Male			Female		
	Total	White	Other	Total	White	Other	Total	White	Other
All causes	146.5	121.5	322.3	158.9	132.2	348.8	134.8	111.1	299.8
Glaucoma	16.2	8.6	72.0	18.2	9.5	81.1	14.6	7.9	64.5
Cataract, total	19.2	16.1	40.7	19.5	16.7	38.5	18.7	15.4	42.1
Prenatal	5.7	4.9	10.7	6.6	5.5	13.2	5.0	4.3	8.6
Other	13.5	11.3	30.0	12.9	11.2	25.3	13.7	11.1	33.5
Retinal disease, total	36.6	34.9	48.6	38.0	36.9	46.5	34.9	32.6	50.3
Prenatal	10.5	10.4	11.3	12.6	12.5	13.5	8.6	8.5	9.5
Diabetic	6.9	5.9	13.6	5.5	5.3	6.8	7.9	6.3	19.2
Other	19.2	18.5	23.7	19.9	19.0	26.3	18.4	17.8	21.7
Retrolental fibroplasia	3.7	4.1	1.6	3.7	4.1	1.6	3.7	4.1	1.6
Myopia	4.3	3.8	7.9	4.8	4.1	9.0	3.9	3.4	6.9
Cornea or sclera	6.9	4.8	21.3	7.1	5.0	21.7	6.7	4.6	20.9
Uveitis	7.5	5.7	20.4	8.1	6.5	19.5	7.1	5.0	21.2
Optic nerve disease	13.5	10.1	37.5	17.2	12.7	49.7	10.3	7.8	27.8
Multiple affections	6.4	5.4	14.0	5.4	4.7	10.5	7.2	5.8	16.8
Other	15.9	13.2	32.9	19.2	15.8	41.7	12.8	10.7	25.5
Unknown	16.3	15.0	25.3	17.8	16.2	28.9	14.9	13.8	22.4

Table 30b.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

TOTAL

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	54,883	146.5	338	10.5	5,404	48.3	9,664	80.2	16,044	211.4	9,176	431.6	8,406	825.7	5,851	2,294.5
Glaucoma	6,059	16.2	2	.1	18	.2	225	1.9	1,800	23.7	1,704	80.2	1,488	146.2	822	322.4
Cataract, total	7,202	19.2	62	1.9	720	6.4	991	8.2	1,749	23.0	1,118	52.6	1,307	128.4	1,255	492.2
Prenatal	2,150	5.7	61	1.9	675	6.0	769	6.4	482	6.3	109	5.1	42	4.1	12	4.7
Other	5,052	13.5	1	0	45	.4	222	1.8	1,267	16.7	1,009	47.5	1,265	124.3	1,243	487.5
Retinal disease, total	13,717	36.6	31	1.0	673	6.0	2,304	19.1	4,277	56.3	2,369	111.4	2,415	237.2	1,648	646.3
Prenatal	3,937	10.5	25	.8	475	4.2	1,244	10.3	1,542	20.3	431	20.3	183	18.0	37	14.5
Diabetic	2,575	6.9	0	0	5	0	359	3.0	1,174	15.5	699	32.9	284	27.9	54	21.2
Other	7,205	19.2	6	.2	193	1.7	701	5.8	1,561	20.6	1,239	58.3	1,948	191.4	1,557	610.6
Retrolental fibroplasia	1,376	3.7	28	.9	910	8.1	434	3.6	3	0	0	0	1	.1	0	0
Myopia	1,627	4.3	3	.1	269	2.4	376	3.1	545	7.2	253	11.9	141	13.9	40	15.7
Cornea or sclera	2,584	6.9	5	.2	87	.8	459	3.8	1,025	13.5	521	24.5	341	33.5	146	57.3
Uveitis	2,822	7.5	5	.2	151	1.3	596	4.9	1,147	15.1	501	23.6	307	30.2	115	45.1
Optic nerve disease	5,042	13.5	46	1.4	595	5.3	1,283	10.6	1,763	23.2	810	38.1	400	39.3	145	56.9
Multiple affections	2,405	6.4	0	0	19	.2	91	.8	554	7.3	483	22.7	687	67.5	571	223.9
Other	5,946	15.9	119	3.7	1,426	12.7	2,024	16.8	1,579	20.8	505	23.8	218	21.4	75	29.4
Unknown	6,103	16.3	37	1.1	536	4.8	881	7.3	1,602	21.1	912	42.9	1,101	108.2	1,034	405.5

Table 30c.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

MALE, TOTAL

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	26,900	147.0	171	10.4	3,019	53.0	5,568	94.1	8,547	235.1	4,360	475.5	3,318	837.9	1,917	2,130.0
Glaucoma	2,909	15.9	1	.1	10	.2	139	2.3	961	26.4	843	91.9	643	162.4	312	346.7
Cataract, total	3,235	17.7	30	1.8	411	7.2	559	9.4	882	24.3	492	53.7	481	121.5	380	422.2
Prenatal	1,196	6.5	29	1.8	380	6.7	434	7.3	260	7.2	64	7.0	22	5.6	7	7.8
Other	2,039	11.1	1	.1	31	.5	125	2.1	622	17.1	428	46.7	459	115.9	373	414.4
Retinal disease, total	6,375	34.8	17	1.0	390	6.9	1,366	23.1	2,208	60.7	992	108.2	893	225.5	509	565.6
Prenatal	2,249	12.3	15	.9	271	4.8	748	12.6	896	24.6	221	24.1	86	21.7	12	13.3
Diabetic	947	5.2	0	0	3	.1	217	3.7	447	12.3	201	21.9	67	16.9	12	13.3
Other	3,179	17.4	2	.1	116	2.0	401	6.8	865	23.8	570	62.2	740	186.9	485	538.9
Retrolental fibroplasia	696	3.8	15	.9	464	8.2	215	3.6	2	.1	0	0	0	0	0	0
Myopia	849	4.6	2	.1	161	2.8	225	3.8	276	7.6	122	13.3	56	14.1	7	7.8
Cornea or sclera	1,204	6.6	2	.1	53	.9	231	3.9	498	13.7	250	27.3	119	30.1	51	56.7
Uveitis	1,394	7.6	3	.2	78	1.4	316	5.3	579	15.9	240	26.2	139	35.1	39	43.3
Optic nerve disease	2,997	16.4	24	1.5	365	6.4	755	12.8	1,055	29.0	499	54.4	229	57.8	70	77.8
Multiple affections	834	4.6	0	0	9	.2	41	.7	228	6.3	170	18.5	216	54.5	170	188.9
Other	3,465	18.9	52	3.2	802	14.1	1,217	20.6	968	26.6	289	31.5	105	26.5	32	35.6
Unknown	2,942	16.1	25	1.5	276	4.8	504	8.5	890	24.5	463	50.5	437	110.4	347	385.6

Table 30d.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

FEMALE, TOTAL

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	27,983	146.0	167	10.5	2,385	43.4	4,096	66.8	7,497	189.6	4,816	398.3	5,088	818.0	3,934	2,384.2
Glaucoma	3,150	16.4	1	.1	8	.1	86	1.4	839	21.2	861	71.2	845	135.9	510	309.1
Cataract, total	3,967	20.7	32	2.0	309	5.6	432	7.0	867	21.9	626	51.8	826	132.8	875	530.3
Prenatal	954	5.0	32	2.0	295	5.4	335	5.5	222	5.6	45	3.7	20	3.2	5	3.0
Other	3,013	15.7	0	0	14	.3	97	1.6	645	16.3	581	48.1	806	129.6	870	527.3
Retinal disease, total	7,342	38.3	14	.9	283	5.1	938	15.3	2,069	52.3	1,377	113.9	1,522	244.7	1,139	690.3
Prenatal	1,688	8.8	10	.6	204	3.7	496	8.1	646	16.3	210	17.4	97	15.6	25	15.2
Diabetic	1,628	8.5	0	0	2	0	142	2.3	727	18.4	498	41.2	217	34.9	42	25.5
Other	4,026	21.0	4	.3	77	1.4	300	4.9	696	17.6	669	55.3	1,208	194.2	1,072	649.7
Retrolental fibroplasia	680	3.5	13	.8	446	8.1	219	3.6	1	0	0	0	1	.2	0	0
Myopia	778	4.1	1	.1	108	2.0	151	2.5	269	6.8	131	10.8	85	13.7	33	20.0
Cornea or sclera	1,380	7.2	3	.2	34	.6	228	3.7	527	13.3	271	22.4	222	35.7	95	57.6
Uveitis	1,428	7.4	2	.1	73	1.3	280	4.6	568	14.4	261	21.6	168	27.0	76	46.1
Optic nerve disease	2,045	10.7	22	1.4	230	4.2	528	8.6	708	17.9	311	25.7	171	27.5	75	45.5
Multiple affections	1,571	8.2	0	0	10	.2	50	.8	326	8.2	313	25.9	471	75.7	401	243.0
Other	2,481	12.9	67	4.2	624	11.4	807	13.2	611	15.4	216	17.9	113	18.2	43	26.1
Unknown	3,161	16.5	12	.8	260	4.7	377	6.1	712	18.0	449	37.1	664	106.8	687	416.4

Table 30e.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

WHITE, TOTAL

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	39,544	124.8	249	9.6	4,150	45.6	7,040	68.2	10,560	158.4	5,993	322.2	6,595	721.6	4,957	2,222.9
Glaucoma	2,832	8.9	1	0	10	.1	94	.9	585	8.8	671	36.1	888	97.2	583	261.4
Cataract, total	5,253	16.6	37	1.4	493	5.4	704	6.8	1,211	18.2	808	43.4	1,009	110.4	991	444.4
Prenatal	1,544	4.9	36	1.4	461	5.1	543	5.3	367	5.5	92	4.9	35	3.8	10	4.5
Other	3,709	11.7	1	0	32	.4	161	1.6	844	12.7	716	38.5	974	106.6	981	439.9
Retinal disease, total	11,417	36.0	25	1.0	561	6.2	1,879	18.2	3,314	49.7	1,882	101.2	2,203	241.0	1,553	696.4
Prenatal	3,366	10.6	22	.8	406	4.5	1,034	10.0	1,330	20.0	378	20.3	163	17.8	33	14.8
Diabetic	1,951	6.2	0	0	4	0	325	3.1	824	12.4	505	27.2	248	27.1	45	20.2
Other	6,100	19.2	3	.1	151	1.7	520	5.0	1,160	17.4	999	53.7	1,792	196.1	1,475	661.4
Retrolental fibroplasia	1,269	4.0	26	1.0	823	9.0	416	4.0	3	0	0	0	1	.1	0	0
Myopia	1,216	3.8	2	.1	160	1.8	262	2.5	433	6.5	204	11.0	118	12.9	37	16.6
Cornea or sclera	1,578	5.0	1	0	57	.6	225	2.2	604	9.1	330	17.7	248	27.1	113	50.7
Uveitis	1,853	5.8	2	.1	112	1.2	384	3.7	714	10.7	320	17.2	228	24.9	93	41.7
Optic nerve disease	3,257	10.3	34	1.3	496	5.4	928	9.0	1,076	16.1	407	21.9	225	24.6	91	40.8
Multiple affections	1,775	5.6	0	0	15	.2	57	.6	321	4.8	313	16.8	564	61.7	505	226.5
Other	4,205	13.3	91	3.5	1,005	11.0	1,430	13.9	1,112	16.7	358	19.2	155	17.0	54	24.2
Unknown	4,889	15.4	30	1.2	418	4.6	661	6.4	1,187	17.8	700	37.6	956	104.6	937	420.2

Table 30f.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

MALE, WHITE

[Rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	19,366	124.7	123	9.2	2,332	49.9	4,119	80.6	5,819	181.4	2,877	359.2	2,521	714.2	1,585	2,058.4
Glaucoma	1,299	8.4	0	0	5	.1	63	1.2	298	9.3	344	42.9	369	104.5	220	285.7
Cataract, total	2,390	15.4	18	1.4	286	6.2	401	7.8	632	19.7	380	47.4	376	106.5	297	385.7
Prenatal	849	5.5	17	1.3	264	5.7	307	6.0	189	5.9	51	6.4	15	4.2	6	7.8
Other	1,541	9.9	1	.1	22	.5	94	1.8	443	13.8	329	41.1	361	102.3	291	377.9
Retinal disease, total	5,370	34.6	15	1.1	327	7.0	1,125	22.0	1,817	56.6	811	101.2	799	226.3	476	618.2
Prenatal	1,934	12.5	13	1.0	234	5.0	623	12.2	782	24.4	194	24.2	76	21.5	12	15.6
Diabetic	805	5.2	0	0	3	.1	201	3.9	371	11.6	163	20.3	59	16.7	8	10.4
Other	2,631	16.9	2	.2	90	1.9	301	5.9	664	20.7	454	56.7	664	188.1	456	592.2
Retrolental fibroplasia	642	4.1	14	1.1	419	9.0	207	4.0	2	.1	0	0	0	0	0	0
Myopia	628	4.0	1	.1	93	2.0	164	3.2	219	6.8	100	12.5	44	12.5	7	9.1
Cornea or sclera	737	4.7	0	0	33	.7	124	2.4	300	9.4	158	19.7	83	23.5	39	50.6
Uveitis	972	6.3	2	.2	58	1.2	215	4.2	393	12.3	168	21.0	107	30.3	29	37.7
Optic nerve disease	1,938	12.5	19	1.4	306	6.6	553	10.8	656	20.4	238	29.7	123	34.8	43	55.8
Multiple affections	626	4.0	0	0	7	.2	28	.5	145	4.5	117	14.6	181	51.3	148	192.2
Other	2,449	15.8	34	2.6	573	12.3	866	16.9	681	21.2	202	25.2	68	19.3	25	32.5
Unknown	2,315	14.9	20	1.5	215	4.6	373	7.3	676	21.1	359	44.8	371	105.1	301	390.9

Table 30g.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

FEMALE, WHITE

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	20,178	124.9	126	9.9	1,828	41.0	2,921	56.1	4,741	137.1	3,116	294.2	4,074	726.2	3,372	2,309.6
Glaucoma	1,533	9.5	1	.1	5	.1	31	.6	287	8.3	327	30.9	519	92.5	363	248.6
Cataract, total	2,863	17.7	19	1.5	207	4.6	303	5.8	579	16.7	428	40.4	633	112.8	694	475.3
Prenatal	695	4.3	19	1.5	197	4.4	236	4.5	178	5.1	41	3.9	20	3.6	4	2.7
Other	2,168	13.4	0	0	10	.2	67	1.3	401	11.6	387	36.5	613	109.3	690	472.6
Retinal disease, total	6,047	37.4	10	.8	234	5.3	754	14.5	1,497	43.3	1,071	101.1	1,404	250.3	1,077	737.7
Prenatal	1,432	8.9	9	.7	172	3.9	411	7.9	548	15.8	184	17.4	87	15.5	21	14.4
Diabetic	1,146	7.1	0	0	1	0	124	2.4	453	13.1	342	32.3	189	33.7	37	25.3
Other	3,469	21.5	1	.1	61	1.4	219	4.2	496	14.3	545	51.5	1,128	201.1	1,019	697.9
Retrolental fibroplasia	627	3.9	12	.9	404	9.1	209	4.0	1	0	0	0	1	.2	0	
Myopia	588	3.6	1	.1	67	1.5	98	1.9	214	6.2	104	9.8	74	13.2	30	20.5
Cornea or sclera	841	5.2	1	.1	24	.5	101	1.9	304	8.8	172	16.2	165	29.4	74	50.7
Uveitis	881	5.5	0	0	54	1.2	169	3.2	321	9.3	152	14.4	121	21.6	64	43.8
Optic nerve disease	1,319	8.2	15	1.2	190	4.3	375	7.2	420	12.1	169	16.0	102	18.2	48	32.9
Multiple affections	1,149	7.1	0	0	8	.2	29	.6	176	5.1	196	18.5	383	68.3	357	244.5
Other	1,756	10.9	57	4.5	432	9.7	564	10.8	431	12.5	156	14.7	87	15.5	29	19.9
Unknown	2,574	15.9	10	.8	203	4.6	288	5.5	511	14.8	341	32.2	585	104.3	636	435.6

Table 30h.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

OTHER COLOR, TOTAL

[Rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	15,339	265.7	89	14.1	1,254	60.2	2,624	151.4	5,484	592.9	3,183	1,196.6	1,811	1,741.3	894	2,793.8
Glaucoma.....	3,227	55.9	1	.2	8	.4	131	7.6	1,215	131.4	1,033	388.3	600	576.9	239	746.9
Cataract, total.....	1,949	33.8	25	4.0	227	10.9	287	16.6	538	58.2	310	116.5	298	286.5	264	825.0
Prenatal.....	606	10.5	25	4.0	214	10.3	226	13.0	115	12.4	17	6.4	7	6.7	2	6.3
Other.....	1,343	23.3	0	0	13	.6	61	3.5	423	45.7	293	110.2	291	279.8	262	818.8
Retinal disease, total..	2,300	39.8	6	1.0	112	5.4	425	24.5	963	104.1	487	183.1	212	203.8	95	296.9
Prenatal.....	571	9.9	3	.5	69	3.3	210	12.1	212	22.9	53	19.9	20	19.2	4	12.5
Diabetic.....	624	10.8	0	0	1	0	34	2.0	350	37.8	194	72.9	36	34.6	9	28.1
Other.....	1,105	19.1	3	.5	42	2.0	181	10.4	401	43.4	240	90.2	156	150.0	82	256.3
Retrolental fibroplasia	107	1.9	2	.3	87	4.2	18	1.0	0	0	0	0	0	0	0	0
Myopia.....	411	7.1	1	.2	109	5.2	114	6.6	112	12.1	49	18.4	23	22.1	3	9.4
Cornea or sclera.....	1,006	17.4	4	.6	30	1.4	234	13.5	421	45.5	191	71.8	93	89.4	33	103.1
Uveitis.....	969	16.8	3	.5	39	1.9	212	12.2	433	46.8	181	68.0	79	76.0	22	68.8
Optic nerve disease...	1,785	30.9	12	1.9	99	4.8	355	20.5	687	74.3	403	151.5	175	168.3	54	168.8
Multiple affections....	630	10.9	0	0	4	.2	34	2.0	233	25.2	170	63.9	123	118.3	66	206.3
Other.....	1,741	30.2	28	4.4	421	20.2	594	34.3	467	50.5	147	55.3	63	60.6	21	65.6
Unknown.....	1,214	21.0	7	1.1	118	5.7	220	12.7	415	44.9	212	79.7	145	139.4	97	303.1

Table 30i.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

MALE, OTHER COLOR

[Rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	7,534	272.7	48	15.1	697	66.8	1,449	180.4	2,728	637.4	1,483	1,278.4	797	1,853.5	332	2,553.8
Glaucoma.....	1,610	58.3	1	.3	5	.5	76	9.5	663	154.9	499	430.2	274	637.2	92	707.7
Cataract, total.....	845	30.6	12	3.8	125	12.0	158	19.7	250	58.4	112	96.6	105	244.2	83	638.5
Prenatal.....	347	12.6	12	3.8	116	11.1	127	15.8	71	16.6	13	11.2	7	16.3	1	7.7
Other.....	498	18.0	0	0	9	.9	31	3.9	179	41.8	99	85.3	98	227.9	82	630.8
Retinal disease, total..	1,005	36.4	2	.6	63	6.0	241	30.0	391	91.4	181	156.0	94	218.6	33	253.8
Prenatal.....	315	11.4	2	.6	37	3.5	125	15.6	114	26.6	27	23.3	10	23.3	0	0
Diadetic.....	142	5.1	0	0	0	0	16	2.0	76	17.8	38	32.8	8	18.6	4	30.8
Other.....	548	19.8	0	0	26	2.5	100	12.5	201	47.0	116	100.0	76	176.7	29	223.1
Retrolental fibroplasia	54	2.0	1	.3	45	4.3	8	1.0	0	0	0	0	0	0	0	0
Myopia.....	221	8.0	1	.3	68	6.5	61	7.6	57	13.3	22	19.0	12	27.9	0	0
Cornea or sclera.....	476	16.9	2	.6	20	1.9	107	13.3	198	46.3	92	79.3	36	83.7	13	92.3
Uveitis.....	422	15.3	1	.3	20	1.9	101	12.6	186	43.5	72	62.1	32	74.4	10	76.9
Optic nerve disease...	1,059	38.3	5	1.6	59	5.7	202	25.2	399	93.2	261	225.0	106	246.5	27	207.7
Multiple affections....	208	7.5	0	0	2	.2	13	1.6	83	19.4	53	45.7	35	81.4	22	169.2
Other.....	1,016	36.8	18	5.7	229	22.0	351	43.7	287	67.1	87	75.0	37	86.0	7	53.8
Unknown.....	627	22.7	5	1.6	61	5.8	131	16.3	214	50.0	104	89.7	66	153.5	46	353.8

Table 30j.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970

FEMALE, OTHER COLOR

[Rate per 100,000]

Cause	Total		Age													
			Under 5		5–19		20–44		45–64		65–74		75–84		85 and over	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes	7,805	259.2	41	13.1	557	53.6	1,175	126.3	2,756	554.5	1,700	1,133.3	1,014	1,662.3	562	2,957.9
Glaucoma	1,617	53.7	0	0	3	.3	55	5.9	552	111.1	534	356.0	326	534.4	147	773.7
Cataract, total	1,104	36.7	13	4.1	102	9.8	129	13.9	288	57.9	198	132.0	193	316.4	181	952.6
Prenatal	259	8.6	13	4.1	98	9.4	99	10.6	44	8.9	4	2.7	0	0	1	5.3
Other	845	28.1	0	0	4	.4	30	3.2	244	49.1	194	129.3	193	316.4	180	947.4
Retinal disease, total	1,295	43.0	4	1.3	49	4.7	184	19.8	572	115.1	306	204.0	118	193.4	62	326.3
Prenatal	256	8.5	1	.3	32	3.1	85	9.1	98	19.7	26	17.3	10	16.4	4	21.1
Diabetic	482	16.0	0	0	1	.1	18	1.9	274	55.1	156	104.0	28	45.9	5	26.3
Other	557	18.5	3	1.0	16	1.5	81	8.7	200	40.2	124	82.7	80	131.1	53	278.9
Retrolental fibroplasia	53	1.8	1	.3	42	4.0	10	1.1	0	0	0	0	0	0	0	0
Myopia	190	6.3	0	0	41	3.9	53	5.7	55	11.1	27	18.0	11	18.0	3	15.8
Cornea or sclera	539	17.9	2	.6	10	1.0	127	13.7	223	44.9	99	66.0	57	93.4	21	110.5
Uveitis	547	18.2	2	.6	19	1.8	111	11.9	247	49.7	109	72.7	47	77.0	12	63.2
Optic nerve disease	726	24.1	7	2.2	40	3.8	153	16.5	288	57.9	142	94.7	69	113.1	27	142.1
Multiple affections	422	14.0	0	0	2	.2	21	2.3	150	30.2	117	78.0	88	144.3	44	231.6
Other	725	24.1	10	3.2	192	18.5	243	26.1	180	36.2	60	40.0	26	42.6	14	73.7
Unknown	587	19.5	2	.6	57	5.5	89	9.6	201	40.4	108	72.0	79	129.5	51	268.4

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